Phase I Contaminated Land Assessment

Royston Farm, Kiln Lane, Elmswell, IP30 9QR

Commissioned By

Land Owner

4th August 2023

Report Reference: OES23-001LOM

Oakridge Environmental Services Limited

CONTENTS

1. INTRODUCTION

1.1. Background

Part IIA of the Environmental Protection Act 1990 (The Act) defines "contaminated land" as any land that appears to be in such a condition, by reason of substances in or under the land that significant harm is being caused or there is a significant possibility of significant harm being caused or pollution to controlled water is being or likely to be caused. The act defines The Act provides the regulatory framework for the identification and remediation of "contaminated Land".

Planning Policy Statement 23: Planning and Pollution Control stated that Land that is potentially affected by contamination is a material consideration for planning purposes.

The National Planning Policy Framework (NPPF) replaced Planning Policy Statement 23 amongst other planning guidance in March 2012. The current version of the NPPF was revised in July 2021.

Section 15 paragraph 174 requires contaminated land to be considered and remediated or mitigated at the planning stage. Additionally, the following 2 paragraphs deal directly with land contamination.

183. Planning policies and decisions should ensure that:

a) a site is suitable for its proposed use taking account of ground conditions and any risks arising from land instability and contamination. This includes risks arising from natural hazards or former activities such as mining, and any proposals for mitigation including land remediation (as well as potential impacts on the natural environment arising from that remediation).

b) after remediation, as a minimum, land should not be capable of being determined as contaminated land under Part IIA of the Environmental Protection Act 1990; and

c) adequate site investigation information, prepared by a competent person, is available to inform these assessments.

184. Where a site is affected by contamination or land stability issues, responsibility for securing a safe development rest with the developer and/or landowner.

A potential developer will need to satisfy the local authority that unacceptable risk from contamination will be successfully addressed through remediation without undue environmental impact during and following the development. **Land contamination risk management (LCRM),** How to assess and manage the risks from land contamination produced by the Environment Agency replaced CLR11 and

provides the framework for applying a risk management process for dealing with land affected by contamination.

The NHBC, Environment Agency and the Chartered Institute of Environmental Health (CIEH) produced the 'Guidance for the Safe Development of Housing on Land Affected by Contamination R&D66:2008' to enable good practice in the application of the model procedures by all relevant parties.

Where an assessment of land that is or may be affected by contaminated land is required the guidance comprises a staged approach starting with a Stage I Preliminary Risk Assessment, followed by Tier II Risk Estimation and options appraisal Where the Stage I & 2 assessments determine the need for action Phase III involves Remediation, design and implementation with verification.

The assessment involves the identification of the Source – Pathway – Receptor and the identification of the relevant plausible pollution linkages. A conceptual model is created to identify the level of risk that a plausible relevant pollution linkage poses. Using the conceptual model, further investigation is planned and implemented to determine quantitative risk and where determined as necessary plan and implement remediation.

This risk assessment based on the current guidance described above, considers the land condition, proposed development, intermediate and end user of the site is considered appropriate for the assessment of this site.

1.2. Brief

Oakridge Environmental Services Limited have been instructed by the landowner to carry out a Phase I Contaminated Land Assessment of an existing site known as Royston Farm, Kiln Lane, Elmswell, IP30 9QR (Now referred to as 'the site').

I understand that that the site owner is applying for permission to build residential dwellings on the site and therefore introduces a more sensitive end user with this change of use.

The assessment comprises a desktop study and site walkover survey for the purpose of identifying potential sources of contamination on or in close proximity to the site and to determine if there is a pathway from the source to a sensitive receptor (relevant pollution linkage). The risk assessment will determine if further investigations are necessary to carry out generic and potentially detailed assessment of risk to human health or controlled waters.

This report is for the sole private and confidential use of the site owner for whom it was carried out for and for any appointed representatives such as. It should not be relied upon or reproduced in whole or part by any third party without the written

permission of Oakridge Environmental Services Limited. The author does not owe an unauthorised third party any duty of care or skill.

Limitations and conditions relating to the use of this report are detailed in APPENDIX 1 of this report.

1.3. Scope Of Work

The scope of work for this phase I contaminated land assessment is to collect and consider sufficient information regarding the site history, Geo environmental information including ground conditions and information on the local environment to create a 'Conceptual Model' to evaluate plausible relevant pollution linkages.

Where appropriate the report will make recommendations on the need for intrusive investigation, chemical sampling and any other analysis that may be required to confirm the condition of the site and whether or not the site poses a significant possibility of significant harm to human health or controlled waters.

2. DESK STUDY

2.1. Information Sources

The desk study is informed from the following sources.

- Groundsure Enviro + Geo Insight (APPENDIX 3)
- Groundsure Historical Maps 1886 – 2023 (APPENDIX 4)
- Google Earth Historical Ariel Photographs

2.2. Detailed Site Description

The site is approximately 0.17 ha in size located at grid reference 597923 262974.

The site is located on Kiln Road and is within Mid Suffolk District Council Authority. The land is surrounded mainly by agricultural buildings, farm cottages, residential dwellings and arable fields. The A14 runs alongside the south of the site.

2.3. Geology

With reference to the Enviro + Geo Insight report the site is underlain with Lowestoft Formation - Diamicton offering a moderate to low permeability, over Crag Group sand, offering very high permeability.

- There are no records of Artificial (worked) or made ground within 250m of the site.

- There are no records of geological faults within 2500m of the site.

- The site is not within a radon affected area.

- There are 4 records of BritPits and 17 records of historic surface ground workings within 500m of the site. The nearest BritPit is located 24m to the south of the site. This is named Crossway Brick Works, with the commodity being clay and shale.
  Of the historic surface ground workings, 3 are located on site. These are all listed as brick works.

- There are 2 records of Extraction, Mining or Natural Cavities within 250m of the site. The nearest is on site and the commodity is listed as chalk. Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions is unlikely and are at a level where they need not be considered.

- There are 8 boreholes recorded within 250m of the site. Borehole 1 is located 17m to the west. All are listed as A45 improvement Bury-Stowmarket.

There are estimated ground chemistry records for the site including a 50m buffer zone. The results relate to rural soil on site and are shown in Table 1 below.

Table 1. Basic Soil Chemistry Records

Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)
15mg/kg	1.8mg/kg	40-60 mg/kg	15-30mg/kg	100mg/kg

The above levels in table 1 are estimated background soil chemistry values and levels influenced by human activities such as industrial processes. The Levels for Cadmium, Chromium, Nickel and Lead are not at levels considered to pose a risk for land used for residential purposes (Based on Soil Guideline Values (SGV's from the Environment Agency and Generic Assessment Criteria produced by LQM/CIEH 3rd Edition). No further investigation of background soil chemistry is considered necessary for these parameters.

2.4. Hydrogeology and Hydrology

The Groundsure Enviro+Geo Insight search show that the site is located over a Secondary Undifferentiated aquifer within the superficial deposits which describes an aquifer as '*Assigned where it is not possible to attribute either category A or B to a rock type. In general, these layers have previously been designated as both minor and nonaquifer in different locations due to the variable characteristics of the rock type'.*

The site is located over a Principal aquifer within the bedrock deposits. A Principal aquifer describes '*Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers.*'

- There are no groundwater abstraction licenses within 250m of the site.
- There are no Surface Water Abstraction Licenses within 1000m of the site.
- There are no Potable Water Abstraction Licenses within 1000m of the site.
- The Environment Agency has designated 1 source protection zone within 500m of the site. This is listed as on site. Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.
- The Environment Agency classifies the soil Leaching class as **HIGH,** Infiltration value**: 70%,** Dilution value**:<300mm/year**.
- The surface and river water features are listed in the Enviro+Geo insight report (APPENDIX 3). 13 features are located on site or within 500m of the

site. The nearest is 30m to the south of the site, and is an inland river, not influenced by normal tidal action.

2.5. Environmental Search Data

The Groundsure Enviro + Geo Insight report attached in APPENDIX 3 has been reviewed to gain knowledge on publicly available environmental data on the site and the immediate vicinity around the site. The information includes public registers held by statutory agencies including the Local Authority and the Environment Agency.

Past Land Uses

There are 3 historical, industrial uses, tanks, energy features, petrol stations, garages or military uses listed as being onsite.

- There are 11 records of **Historical Industrial land** uses within 250m of the site. 3 are on site, with the first listed as unspecified commercial/industrial. The other 2 on site are brick works.

- There is 1 record of **historical tanks** within 250m of the site. This is located 46m to the south and is listed as an unspecified tank.

- There are no records of **historical energy features** within 250m of the site.

- There are no records of **historical garages** within 250m of the site.

Current Land Uses

There are no records of current or recent industrial land uses, petrol stations, sites determined as contaminated land, storage of chemicals or controlled substances, licensed pollutant releases, historical licensed industrial activities or pollutions incidents , on the site.

- There are 4 records of **recent industrial land uses** within 250m of the site. The nearest is a telecommunications mast located 74m to the south of the site.

- There are no current or **recent petrol station** within 250m of the site.

- There is no **licensed pollutant release** within 250m of the site.

- There is no **licensed discharge to controlled waters** within 250 m from the site.

- There are no **list 2 dangerous substances** shown as being stored within 250m from the site.

- There are no **pollution incidents** recorded by the Environment Agency within 250m of the site.

Landfill and Other Waste Sites

There are no records of active landfills or waste sites within 250m of the site.

- There are no records of a **historical landfill (EA/NRW records)** within 250m of the site.

- There are 21 records of waste exemptions within 250m from the site. The nearest is 120m to the west of the site and is listed as 'Disposing of waste exemption-Burning waste in the open'.

Designated Environmentally Sensitive Sites

The site is not in an officially designated environmentally sensitive area.

- The site is within a **Nitrate Vulnerable Zone** as recorded by DEFRA.

- The site is listed as being within a **SSSI Risk zone**.

2.6. Site History

To determine whether there has been any previous land uses on the site that may be considered to be 'potentially contaminative' Oakridge Environmental Services Ltd have consulted historical and modern map extracts dating from 1886 to 2023. These maps are included in APPENDIX 4. Comments will generally be relating to the area within a 250m radius of the site as the impact with regards to potential contaminants on land further than 250m away are considered to be very low risk unless stated otherwise.

1883 – 1888 County Series Map (1:10,560 & 1:2,500)

The site is shown as within land parcels 77 and 78 and is surrounded by fields. There is a collection of approximately 10 buildings, within land parcel 78, labelled brick works. There is another brick works located approximately 500m to the southeast for the site, and several clay pits within the area. The main village of Woolpit is around

750m to the southwest. Woolpit brick works is located 750m to the southeast of the site. The main village of Elmswell is located approximately 1000m to the northeast.

1903 County Series Map (1:10,560)
There are no apparent significant changes to the site, or the surrounding area shown on this map layer.

1904 County Series Map (1:2,500)
There are no apparent significant changes to the site, or the surrounding area shown on this map layer.

1905 County Series Map (1:10,560)
There are no apparent significant changes to the site, or the surrounding area shown on this map layer.

1950 County Series Map (1:10,560)
The buildings on land parcel 78 have been removed. Several buildings around the Woolpit brick works have been removed. The brick works is now disused.

1958 Provisional Map (1:10560)
There are no apparent significant changes to the site, or the surrounding area shown on this map layer.

1973 Provisional Map (1:10,560)
The A14 appears on this map set.

1974-1979 National Grid Map (1: 1,2500)
There are no apparent significant changes to the site, or the surrounding area shown on this map layer.

1978-1982 National Grid Map (1:10,000 & 1:2,500)
There is a sewage works to the east of the site at approximately 400m distance. There is an addition of a nursery at 300m to the south of the site. The residential areas in the villages of Woolpit and Elmswell have both increased in size. The disused brick works is now a piggery. This map set is incomplete.

1986-1987 National Grid (1:2,500)
There is a depot 250m to the south of the site. This map set is incomplete.

1991-1995 National Grid Map (1:2,500)
There are no apparent significant changes to the site, or the surrounding area shown on this map layer. This map set is incomplete.

2001 National Grid Map (1:10,000)
The sewage works is no longer shown on this map layer.

2003 Landline Map (1:1,250)

There is an addition of 4 buildings on the site.

2010 National Grid Map (1:10,000)

There is an addition of several buildings to the southwest of the site, on the opposite side of the A14. A cemetery is shown at approximately 500m to the north of the site,

2023 National Grid Map (1:10,000)

The cemetery and nursery are no longer shown on this map layer. The site is now labelled as Royston Farm.

Information from the landowner

The site was purchased by the current landowner in 1993 and was used for a timber products sales yard. There are outbuildings for product storage and workshop/office. The development of the site over time can viewed on the google earth maps.

No treatment of wood or kilns were part of the onsite processes.

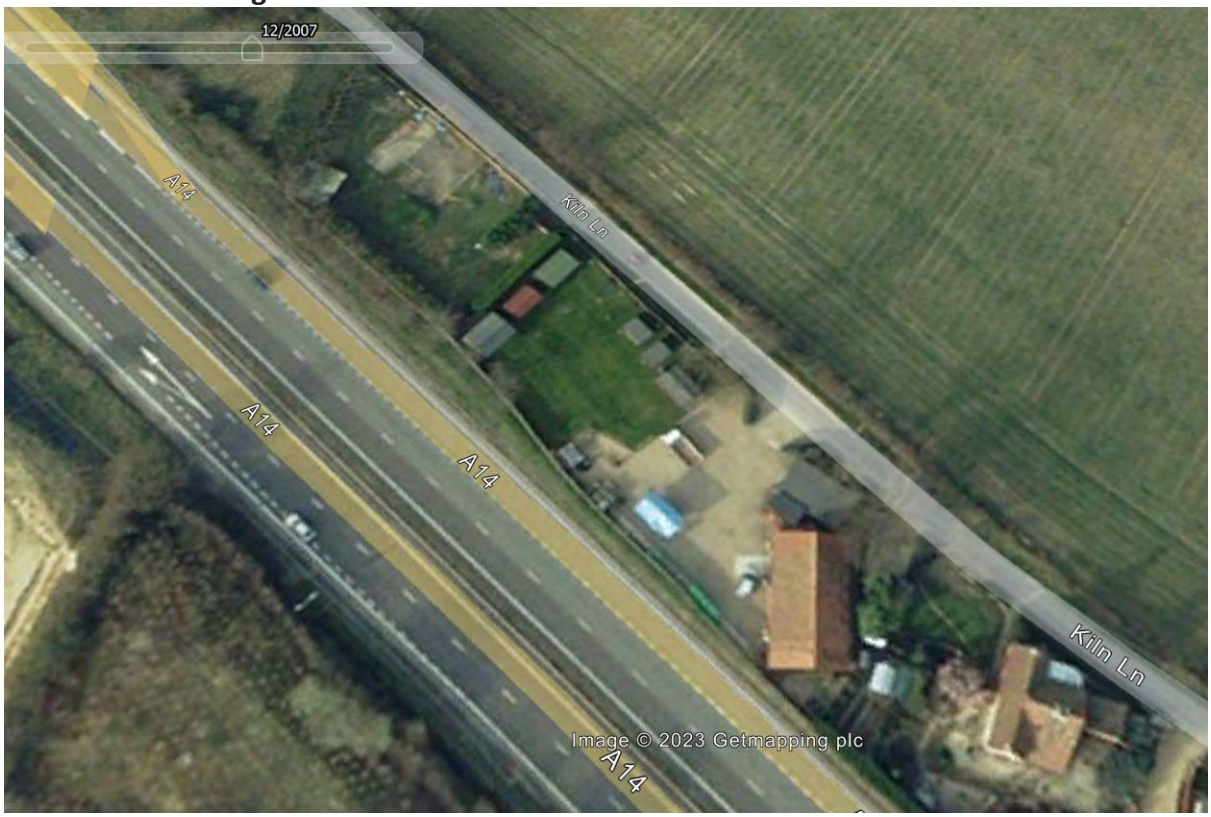
The current grass area was re-instated after permission for an office building was granted.

Google Earth

The 2000 google earth pro maps show the site when operating in its previous use as a wood products yard. The outbuildings can bee seen on the west of the site with the main workshop and office on the east with gravel parking area between

Photo 1- 2000 Google Earth

Photo 2- 2007 Google Earth



By 2015 the outbuildings for timber products were removed and the footings for the office can be seen in the centre of the site

Photo 3- 2015 Google Earth

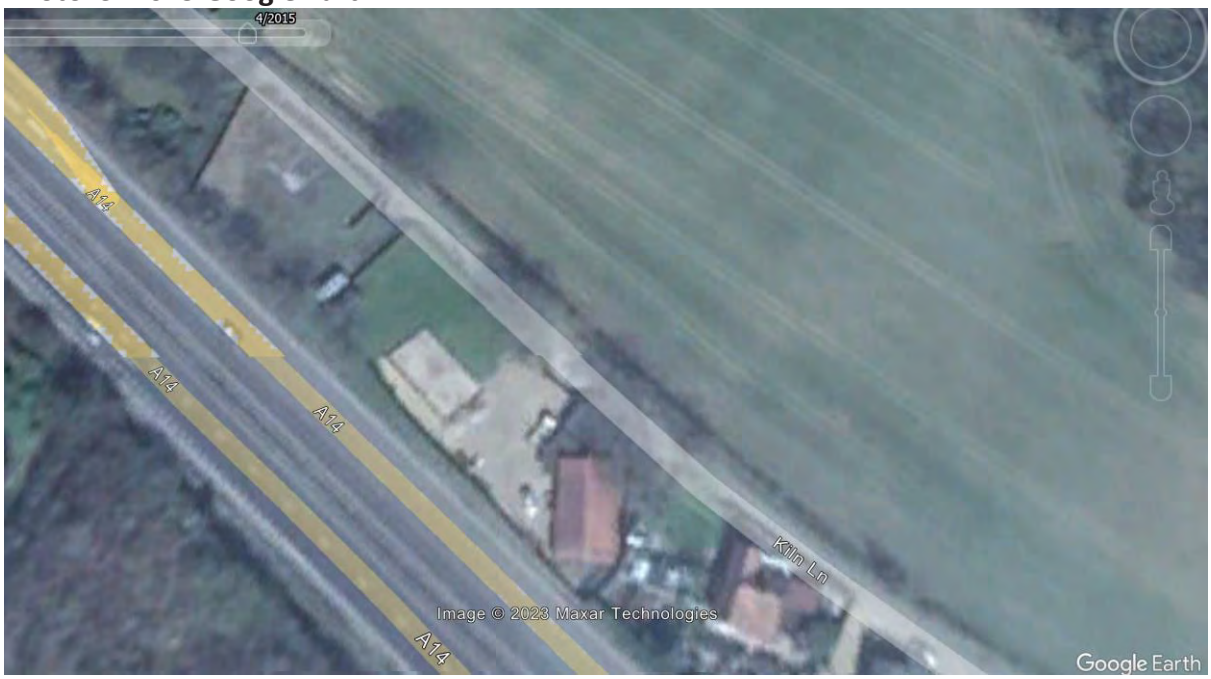
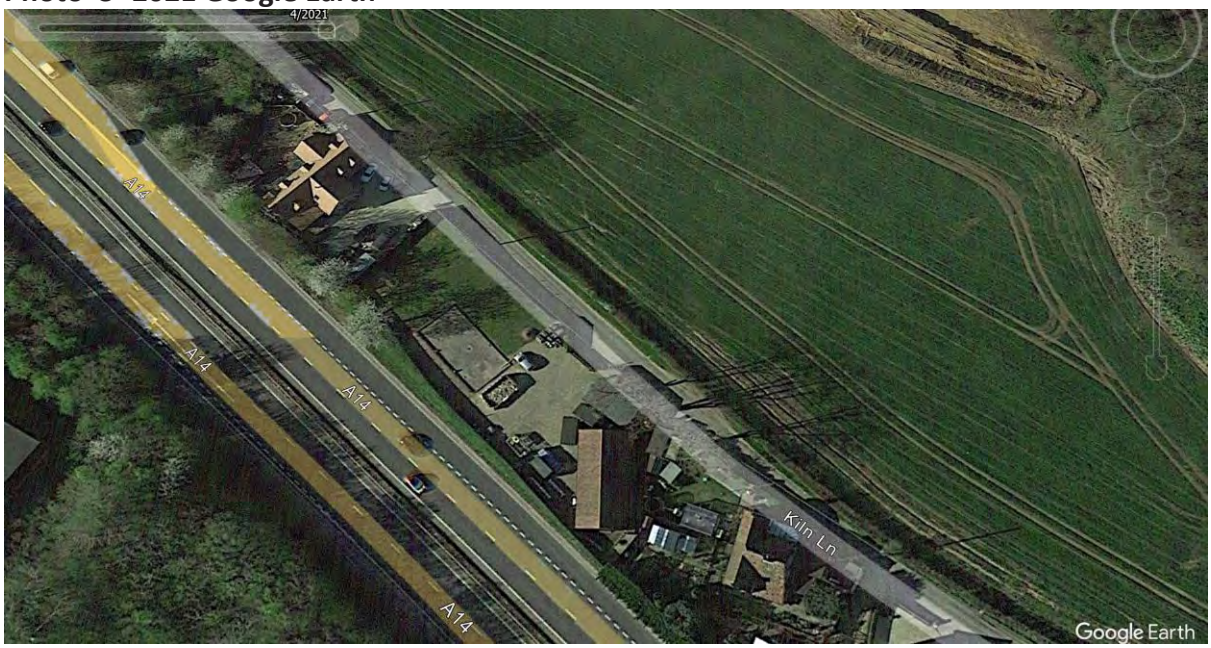


Photo 3- 2021 Google Earth



There are no significant changes to the site but the adjacent land to the Northwest now has a large residential property on it.

Nearby Residential dwelling planning permissions

There are 2 residential dwelling application bordering the site to the northwest and southeast.

4767/16. EH - Land at, Kiln Lane, Elmswell, BURY ST EDMUNDS, Suffolk.
Erection of 1 no. 1½ storey detached dwelling and detached three bay garages with storage over.

A Landmark EnviroSource and questionnaire was submitted. The landmark search passed for contamination. No further investigation was deemed necessary.

DC/18/03087 1 Royston Park, Kiln Lane, Elmswell, BURY ST EDMUNDS, Suffolk, IP30 9QR.
Erection of 1No dwelling (following removal of caravan and brick building) resubmission.

A Landmark EnviroSource and questionnaire was submitted. The landmark search passed for contamination. No further investigation was deemed necessary.

3. SITE WALKOVER INSPECTION

A site walkover inspection was carried out on the 28th July 2023.

The site is accessed via gates off of Kiln Lane onto the gravel driveway that can be seen in the ariel photographs.

Off site locations are as shown in the above desk study with largely residential dwellings in a linear development along Kiln Road.

The site itself is bordered by wooden fences on all sides The original building (to be converted residential) and a workshop with concrete floors are on the eastern side of the site.

The gravel driveway is clean with no signs of significant staining. There are some reclaimed bricks, roof tiles and stone on the gravel. The majority of the western side of site is grass with the foundations, lower brick courses and compacted surface prepared for the floor of the office located on the northern boundary .

Photo 3 – view from entrance gates

Photo 4 – View of site from buildings

Photo 5 – View of site from northwest boundary

Due to the fact that the site was on the edge of the area shown as brickworks a 600mm deep hole was dug to look at the sub soil. The material and hole are shown in photos 6 and 7.

There is approximately 200mm of soil over sand and gravel typical of the area. The soil was largely clean with a very small amount of brick fragment. And no sign of potential contaminants associated with brock works such as ash/clinker ore high levels of made ground from the kiln or any earthworks for clay mining.

Photo 6 – excavation to show sub soil.

Photo 7 – Excavated material

Consistent with nearby previous contaminated land investigations and the desk study that shows the Kiln and main brickworks building north of the site in the location of the A14 and beyond the site doesn't not appear to have impact from the previous brickyard use and was on or beyond the boundary of that previous use.

There are no signs of potential contamination on or off site. All vegetative growth looks healthy.

4. CONCEPTUAL MODEL

4.1. Introduction

A 'Conceptual Model' is used to assess the potential level of risk to human receptors and controlled waters. It represents the relationship between contaminant sources, pathways and receptors to identify and assess plausible relevant pollutant linkages.

The model is central to the risk assessment process and although formulated during the initial phase of any contaminated land assessment or investigation it is subject to change as information is discovered and the understanding of the site takes shape.

There are four considerations to the conceptual model which form the basis to determine the level of risk.

Source of contamination refers to any identified substance resulting from current or historic uses of the land or the surrounding area or an incident which may have a negative impact on surface or sub-surface soils or the groundwater.

Pathway refers to the method by which an identified potential contaminant can migrate between the source and an identified receptor.

Receptor refers to human, flora, fauna, groundwater, surface water, building or structure.

Pollutant Linkage refers to where there is plausible pathway to 'link' an identified source to a receptor.

4.2. Sources(s) of Contamination

A review of available information gathered from the search data, historical maps, local knowledge and the site walkover inspection of the site identifies that historical and current use of the site are not likely to have caused potential contamination of the site. The site is shown on historical maps as being on or just beyond the boundary of as a historic brickworks site that closed before the 1950's.

The kiln clay pits and working buildings for the brick works are all located further north in the location of the A14 and beyond and it is not considered likely that potential contamination is present on this site from this former nearby use. This is supported by previous contaminated land investigations nearby and the walkover and exploratory look at the subsoil during the site walkover survey.

Therefore, there are **no significant identified sources of potential contamination** on the site or near enough to the site to pose a plausible risk of pollution linkages being present.

4.3. Receptors

Potential receptors for the site have been identified on the basis of the identification of potential on-site sources of contamination.

- Future occupants – People living in the new dwellings could be affected by exposure to the potential sources of contamination within the soil.
- Construction workers –Excavating footings, laying services below ground may be exposed to contaminants if they are present within soil on site.
- Water pipes

4.4. Potential Pathways

The potential pathways for the potential sources of contamination identified are.

- Construction workers may be exposed to contaminants by dermal contact/absorption (through skin or open wounds, ingestion or inhalation of dust or soils during excavation works on onsite).
- Future occupants may be exposed to contaminants Dermal absorption, Inhalation or ingestion of soils/dust.

- Future Occupants may grow their own fruit or vegetables in their gardens posing a risk of plant uptake of contaminants.

4.5. Plausible Relevant Pollutant Linkages

The relevant pollutant linkages are identified via the conceptual model in Table 2. The level of risk is informed by information in the desk study and observations during the site walkover inspection.

Table 2: Conceptual Model

Source(s)	Pathway	Receptor	Risk
PAH from previous brickworks	▪ Ingestion of soil/dust ▪ Inhalation ▪ Dermal Contact	Construction Workers	Low
	▪ Ingestion of soil/dust ▪ Inhalation ▪ Dermal Contact	Future occupants	Low
	▪ Ingress into water supply pipes ▪ Ingestion	Underground Services Future Occupants	Low

5. CONCLUSIONS

There is no evidence from the desk study and site walkover to suggest that previous activities on or off the site have created a source of contamination that could harm potential users of the site. Additionally, there is no evidence of a pollution incident on the site, or off site that may have posed a risk to the site.

The site walkover survey was carried out and visual inspection of the land showed no signs of potential contamination not otherwise identified in the desk top searches could be seen.

I do not consider that further investigation into the potential existence of historic contaminants is necessary.

Therefore, the risk is considered Nil to Low, and it is not considered likely that significant potential of significant harm exists.

Potential contamination should not therefore be considered as a material concern for refusing the planning application for the development of residential dwellings.

Therefore, following development, the site is not likely to be determined as contaminated land under Part IIA of the Environmental Protection Act 1990 as required by the NPPF.

6. RECOMMENDATIONS

The conclusions of the Phase I contaminated land assessment based on the known data at the time of writing this report identify that there is unlikely to be a plausible pollution linkage that would make the site unsuitable for a change of use to residential dwellings.

The following recommendations are therefore made.

- It is recommended that during the site clearance and ground works of any future development, care should be taken to watch for the presence of any contaminants that have not been previously identified and if any suspected contaminants are discovered further guidance should be sought from an Environmental Consultant before works in those areas continues.

This report should be submitted to the Local Planning Authority as part of any planning application for Outline planning permission for residential dwellings.

Prepared By

Chris Cornish BSc (Hons) MCIEH
4th August 2023

APPENDIX 1 – Report Limitations and Conditions

Information was obtained, reviewed and evaluated in preparing this Report from Groundsure Ltd and other named third parties. Our conclusions, opinions and recommendations are based upon this information and the information obtained during the Site walkover. The Consultant preparing this report does not warrant the accuracy of the information provided and will not be responsible for any opinions expressed, or conclusions reached in reliance upon information which is subsequently proven to be inaccurate. No independent validation of such information has been made by Oakridge Environmental Services Limited.

The conclusion and recommendations contained in this Report represent the author's professional opinions. These opinions were given in accordance with currently accepted Government and Industry Guidance in England and Wales at the time of the investigation and publication, as such this report and the opinions within are not a guarantee that this site is free of contamination, hazardous or potentially hazardous materials or conditions. There can be no warranty against the possibility of future changes to the condition of the site, either above or below ground.

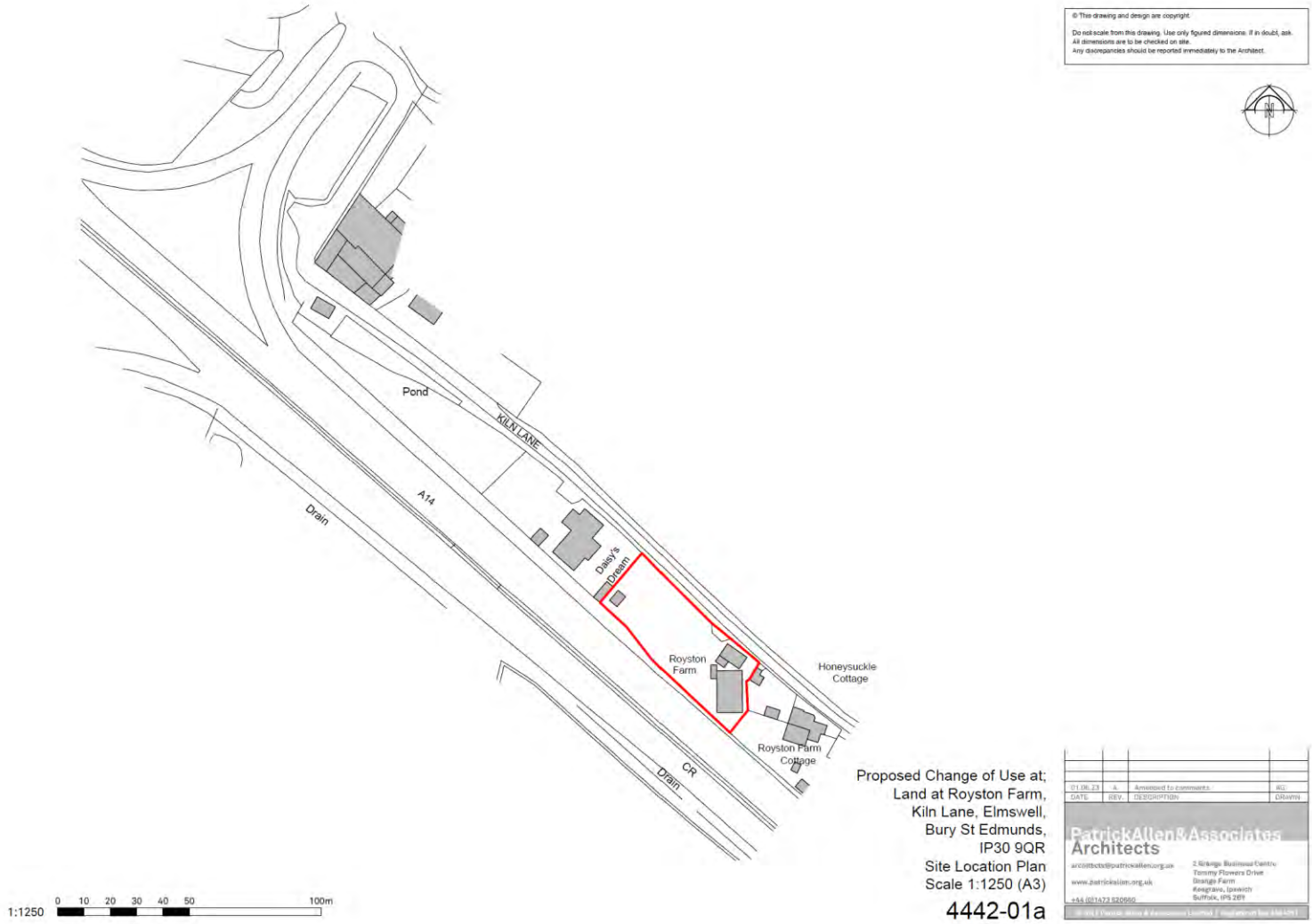
The report and the recommendations contained within is limited to the aspects of land contamination specifically reported on and is necessarily qualified accordingly, no liability shall be accepted by Oakridge Environmental Services Limited for other unidentified and unforeseen aspects which may be the result of gradual or sudden pollution incidents, past or present unrecorded land uses both on- and off-site and the potential for associated contaminant migration. The opinions expressed cannot be absolute due to the limitations of the investigation as stated in the report as well as time and resources imposed by the agreed brief.

The conclusions and any recommendations made in this Report are limited to those that can be made on the basis of the investigation carried out as described in the report. The results of this report should be viewed in the context of the range of data sources consulted, the number of locations where the ground was sampled and the number of soil, gas or groundwater samples tested; no liability can be accepted for information in other data sources or conditions not revealed by the information sources, sampling or testing.

This Report was prepared for the sole and exclusive use of the Land Owner and Appointed agents and for the specific purpose instructed as defined in Section 1 of this report. Use of the Report by any other person is unauthorised and such use is at the risk of the site owner.

This report is written for the purpose stated within; it should not be used for any other purposes without consultation with Oakridge Environmental Services Limited. The professional opinion given in this report has been prepared in relation to the proposed end-use. Should another end-use be intended at any time, re-assessment may be required. It is important to note that that over time practises will improve and the relevant guidance and legislation will be amended or superseded, which may necessitate a re-assessment of the site.

APPENDIX 2 - Site Plans



APPENDIX 3 - Groundsure Enviro+GeoInsight Report

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Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

ROYSTON FARM, KILN LANE, ELMSWELL, IP30 9QR

Order Details

Date: 25/07/2023

Your ref: OES23-001LOM

Our Ref: HMD-JTE-B1N-CAY-9ZY

Site Details

Location: 597923 262974

Area: 0.17 ha

Authority: Mid Suffolk District Council ↗

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Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	3	2	6	39	-
16 >	1.2 >	Historical tanks >	0	1	0	4	-
17	1.3	Historical energy features	0	0	0	0	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	0	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
19 >	2.1 >	Historical industrial land uses >	4	2	8	51	-
22 >	2.2 >	Historical tanks >	0	1	0	8	-
23	2.3	Historical energy features	0	0	0	0	-
23	2.4	Historical petrol stations	0	0	0	0	-
23	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
24	3.1	Active or recent landfill	0	0	0	0	-
24	3.2	Historical landfill (BGS records)	0	0	0	0	-
25	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
25	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
25	3.5	Historical waste sites	0	0	0	0	-
25 >	3.6 >	Licensed waste sites >	0	0	0	1	-
26 >	3.7 >	Waste exemptions >	0	0	21	4	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
29 >	4.1 >	Recent industrial land uses >	0	0	4	-	-
30	4.2	Current or recent petrol stations	0	0	0	0	-
30	4.3	Electricity cables	0	0	0	0	-
30	4.4	Gas pipelines	0	0	0	0	-
30	4.5	Sites determined as Contaminated Land	0	0	0	0	-

30	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
31	4.7	Regulated explosive sites	0	0	0	0	-
31	4.8	Hazardous substance storage/usage	0	0	0	0	-
31	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
31	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
31	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
32	4.12	Radioactive Substance Authorisations	0	0	0	0	-
32 >	**4.13 >**	**Licensed Discharges to controlled waters >**	0	0	0	37	-
37	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
37	4.15	Pollutant release to public sewer	0	0	0	0	-
38	4.16	List 1 Dangerous Substances	0	0	0	0	-
38 >	**4.17 >**	**List 2 Dangerous Substances >**	0	0	0	2	-
38	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
38	4.19	Pollution inventory substances	0	0	0	0	-
39	4.20	Pollution inventory waste transfers	0	0	0	0	-
39	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	**Hydrogeology >**	On site	0-50m	50-250m	250-500m	500-2000m
40 >	**5.1 >**	**Superficial aquifer >**	Identified (within 500m)				
42 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
43 >	**5.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
44 >	**5.4 >**	**Groundwater vulnerability- soluble rock risk >**	Identified (within 0m)				
45	5.5	Groundwater vulnerability- local information	None (within 0m)				
46 >	**5.6 >**	**Groundwater abstractions >**	0	0	0	0	12
49	5.7	Surface water abstractions	0	0	0	0	0
49 >	**5.8 >**	**Potable abstractions >**	0	0	0	0	1
50 >	**5.9 >**	**Source Protection Zones >**	1	0	0	0	-
50	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
51 >	**6.1 >**	**Water Network (OS MasterMap) >**	0	3	6	-	-

52 >	6.2 >	Surface water features >	0	2	11	-	-
53 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
53 >	6.4 >	WFD Surface water bodies >	0	0	1	-	-
53 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
55	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
55	7.2	Historical Flood Events	0	0	0	-	-
55	7.3	Flood Defences	0	0	0	-	-
56	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
56	7.5	Flood Storage Areas	0	0	0	-	-
57	7.6	Flood Zone 2	None (within 50m)				
57	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
58	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding >					
59 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
60 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	1
61	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
61	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
61	10.4	Special Protection Areas (SPA)	0	0	0	0	0
61	10.5	National Nature Reserves (NNR)	0	0	0	0	0
62	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
62 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	4
62	10.8	Biosphere Reserves	0	0	0	0	0
63	10.9	Forest Parks	0	0	0	0	0
63	10.10	Marine Conservation Zones	0	0	0	0	0
63	10.11	Green Belt	0	0	0	0	0
63	10.12	Proposed Ramsar sites	0	0	0	0	0

63	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
64	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
64	10.15	Nitrate Sensitive Areas	0	0	0	0	0
64 >	10.16 >	Nitrate Vulnerable Zones >	1	0	0	0	2
65 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
66 >	10.18 >	SSSI Units >	0	0	0	0	1
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
67	11.1	World Heritage Sites	0	0	0	-	-
68	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
68	11.3	National Parks	0	0	0	-	-
68 >	11.4 >	Listed Buildings >	0	0	1	-	-
69	11.5	Conservation Areas	0	0	0	-	-
69	11.6	Scheduled Ancient Monuments	0	0	0	-	-
69	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
70 >	12.1 >	Agricultural Land Classification >	Grade 2 (within 250m)				
71	12.2	Open Access Land	0	0	0	-	-
71 >	12.3 >	Tree Felling Licences >	1	2	5	-	-
72	12.4	Environmental Stewardship Schemes	0	0	0	-	-
72	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
73	13.1	Priority Habitat Inventory	0	0	0	-	-
73	13.2	Habitat Networks	0	0	0	-	-
73	13.3	Open Mosaic Habitat	0	0	0	-	-
73	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
74 >	14.1 >	10k Availability >	Identified (within 500m)				
75	14.2	Artificial and made ground (10k)	0	0	0	0	-
76	14.3	Superficial geology (10k)	0	0	0	0	-

76	14.4	Landslip (10k)	0	0	0	0	-
77	14.5	Bedrock geology (10k)	0	0	0	0	-
77	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	**Geology 1:50,000 scale >**	On site	0-50m	50-250m	250-500m	500-2000m
78 >	15.1 >	**50k Availability >**	Identified (within 500m)				
79 >	15.2 >	**Artificial and made ground (50k) >**	0	0	0	2	-
80	15.3	Artificial ground permeability (50k)	0	0	-	-	-
81 >	15.4 >	**Superficial geology (50k) >**	1	1	5	8	-
82 >	15.5 >	**Superficial permeability (50k) >**	Identified (within 50m)				
83	15.6	Landslip (50k)	0	0	0	0	-
83	15.7	Landslip permeability (50k)	None (within 50m)				
84 >	15.8 >	**Bedrock geology (50k) >**	2	0	0	1	-
85 >	15.9 >	**Bedrock permeability (50k) >**	Identified (within 50m)				
85	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	**Boreholes >**	On site	0-50m	50-250m	250-500m	500-2000m
86 >	16.1 >	**BGS Boreholes >**	0	2	6	-	-
Page	Section	**Natural ground subsidence >**					
88 >	17.1 >	**Shrink swell clays >**	Low (within 50m)				
89 >	17.2 >	**Running sands >**	Very low (within 50m)				
90 >	17.3 >	**Compressible deposits >**	Negligible (within 50m)				
91 >	17.4 >	**Collapsible deposits >**	Very low (within 50m)				
92 >	17.5 >	**Landslides >**	Very low (within 50m)				
93 >	17.6 >	**Ground dissolution of soluble rocks >**	Negligible (within 50m)				
Page	Section	**Mining and ground workings >**	On site	0-50m	50-250m	250-500m	500-2000m
95 >	18.1 >	**BritPits >**	0	1	3	10	-
98 >	18.2 >	**Surface ground workings >**	3	0	14	-	-
99	18.3	Underground workings	0	0	0	0	0
99	18.4	Underground mining extents	0	0	0	0	-
99	18.5	Historical Mineral Planning Areas	0	0	0	0	-

100 >	**18.6 >**	**Non-coal mining >**	1	0	1	1	1
100	18.7	JPB mining areas	None (within 0m)				
101	18.8	The Coal Authority non-coal mining	0	0	0	0	-
101	18.9	Researched mining	0	0	0	0	-
101	18.10	Mining record office plans	0	0	0	0	-
101	18.11	BGS mine plans	0	0	0	0	-
102	18.12	Coal mining	None (within 0m)				
102	18.13	Brine areas	None (within 0m)				
102	18.14	Gypsum areas	None (within 0m)				
102	18.15	Tin mining	None (within 0m)				
102	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
103	19.1	Natural cavities	0	0	0	0	-
103	19.2	Mining cavities	0	0	0	0	0
103	19.3	Reported recent incidents	0	0	0	0	-
103	19.4	Historical incidents	0	0	0	0	-
104	19.5	National karst database	0	0	0	0	-
Page	Section	**Radon >**					
105 >	**20.1 >**	**Radon >**	Less than 1% (within 0m)				
Page	Section	**Soil chemistry >**	On site	0-50m	50-250m	250-500m	500-2000m
107 >	**21.1 >**	**BGS Estimated Background Soil Chemistry >**	4	3	-	-	-
107	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
108	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
109	22.1	Underground railways (London)	0	0	0	-	-
109	22.2	Underground railways (Non-London)	0	0	0	-	-
109	22.3	Railway tunnels	0	0	0	-	-
109	22.4	Historical railway and tunnel features	0	0	0	-	-
109	22.5	Royal Mail tunnels	0	0	0	-	-

110	22.6	Historical railways	0	0	0	-	-
110	22.7	Railways	0	0	0	-	-
110	22.8	Crossrail 1	0	0	0	0	-
110	22.9	Crossrail 2	0	0	0	0	-
110	22.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 05/04/2020

Site Area: 0.17ha

Recent site history - 2017 aerial photograph

Capture Date: 10/05/2017

Site Area: 0.17ha

Recent site history - 2014 aerial photograph

Capture Date: 18/05/2014

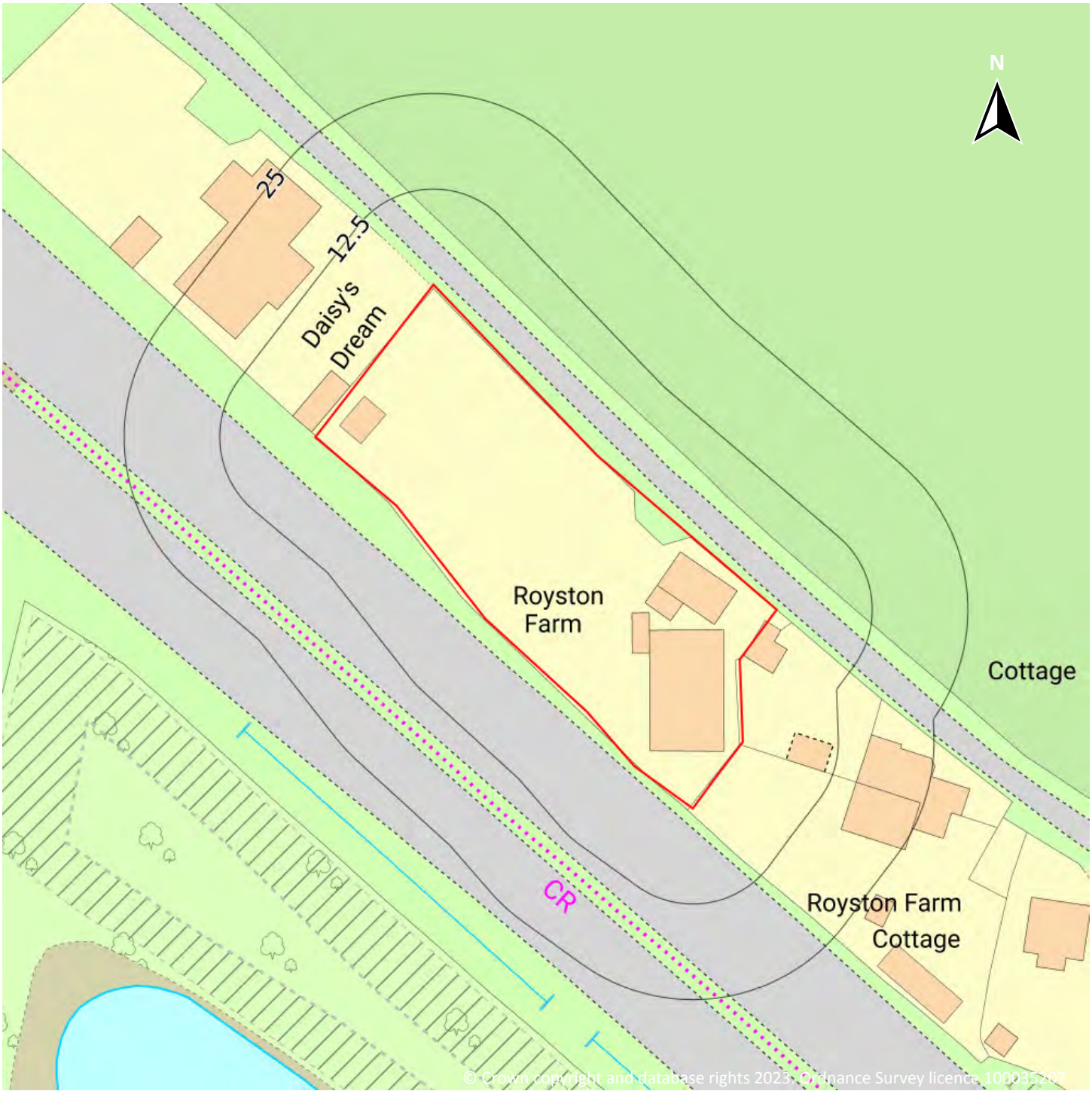
Site Area: 0.17ha

Recent site history - 1999 aerial photograph

Capture Date: 05/05/1999

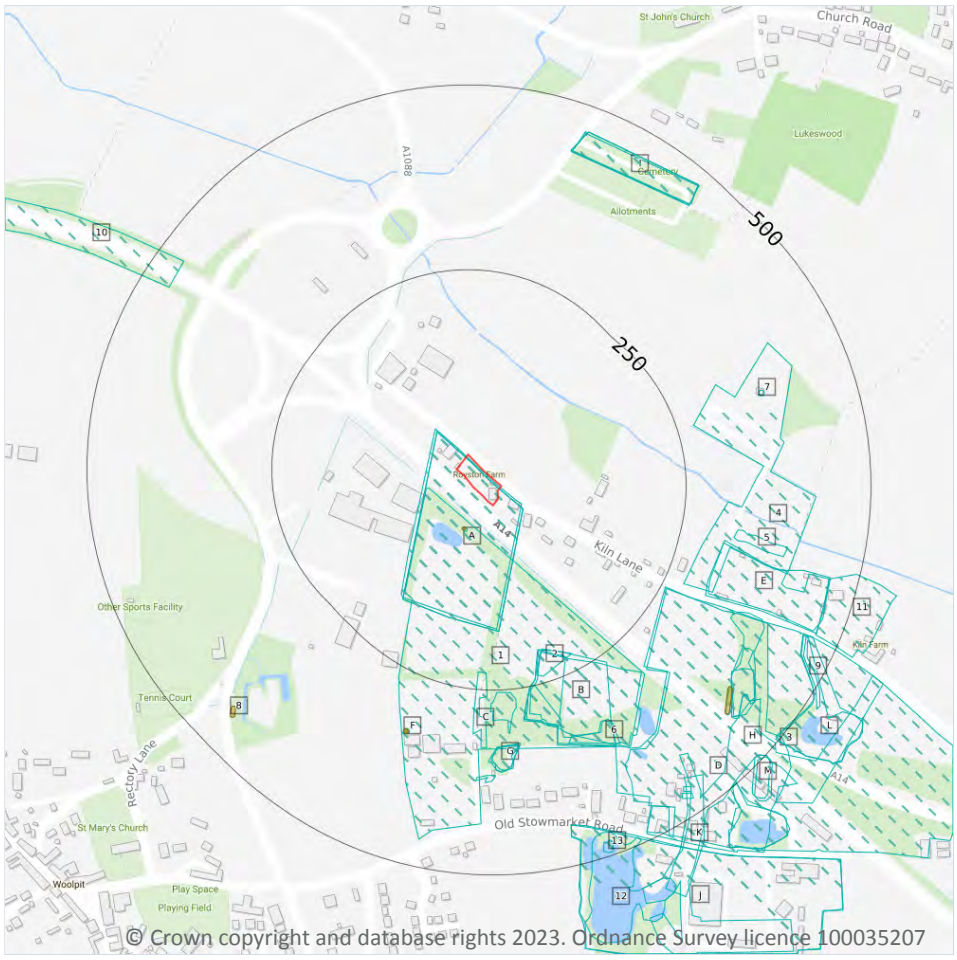
Site Area: 0.17ha

OS MasterMap site plan



Site Area: 0.17ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

1.1 Historical industrial land uses

Records within 500m	50

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Commercial/Industrial**	**1950**	**2058359**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Brick Works**	**1883**	**2079216**
A	**On site**	**Brick Works**	**1905**	**2116438**
1	38m S	Nursery	1978	2052812
A	46m S	Unspecified Tank	1883	2044647
B	204m S	Unspecified Pit	1905	2064846
B	205m S	Unspecified Pit	1950	2092653
2	205m S	Unspecified Pit	1950	2091917
B	208m S	Old Clay Pits	1883	2042527
C	226m S	Unspecified Ground Workings	1905	2099949
B	248m S	Unspecified Pit	1950	2114695
C	253m S	Clay Pit	1883	2048286
3	256m SE	Brick Works	1905	2091447
D	258m SE	Brick Works	1883	2114941
4	273m E	Sewage Works	1978	2080597
E	305m SE	Brick Works	1905	2080208
E	307m SE	Unspecified Disused Works	1950	2053734
5	322m E	Unspecified Tanks	1978	2055140
G	324m S	Unspecified Pit	1905	2099837
F	324m S	Unspecified Tank	1978	2044646
G	326m S	Unspecified Pit	1950	2085173
G	327m S	Unspecified Pit	1950	2092942
6	328m SE	Unspecified Pit	1950	2094302
D	354m SE	Unspecified Pit	1950	2101475
G	365m S	Old Clay Pits	1883	2042528
7	370m E	Unspecified Tank	1978	2044644
D	389m SE	Unspecified Pit	1950	2065189
D	393m SE	Unspecified Pit	1905	2089089
D	403m SE	Unspecified Tanks	1883	2055141

ID	Location	Land use	Dates present	Group ID
H	422m SE	Railway Sidings	1905	2106717
I	431m N	Cemetery	1950	2081408
I	432m N	Cemetery	1905 - 1950	2115256
I	433m N	Cemetery	1978	2104000
J	445m S	Brick Works	1905	2106993
J	445m S	Disused Brick Works	1950	2058012
K	450m SE	Railway Sidings	1950	2101954
L	452m SE	Unspecified Pit	1950	2098642
L	452m SE	Unspecified Pit	1905	2090735
9	456m SE	Unspecified Ground Workings	1883	2060713
K	459m SE	Unspecified Kiln	1905	2045845
K	460m SE	Builders Yard	1978	2053518
10	460m NW	Cuttings	1978	2061823
11	460m E	Disused Brick Works	1950	2058013
K	466m SE	Unspecified Kiln	1950	2045844
12	467m S	Unspecified Pit	1905	2070818
13	479m S	Clay Pit	1883	2048287
M	492m SE	Unspecified Kiln	1905	2082532
H	497m SE	Unspecified Pit	1905	2118880
M	497m SE	Unspecified Kiln	1883	2110628
H	499m SE	Unspecified Pit	1950	2096201

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	5

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
A	46m S	Unspecified Tank	1883	345468
F	324m S	Unspecified Tank	1972 - 1973	354847
F	324m S	Unspecified Tank	1987 - 1995	357668
D	402m SE	Tanks	1883	348712
8	438m SW	Tanks	1883	348713

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	0

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

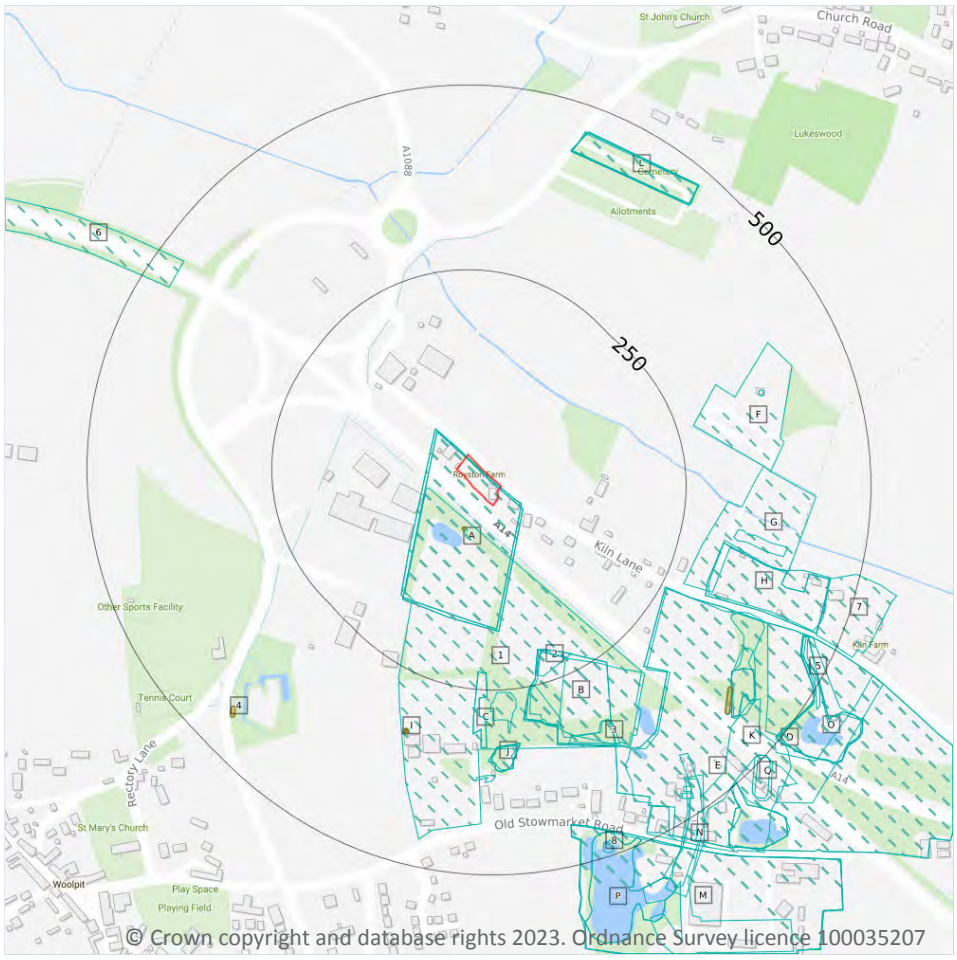
1.6 Historical military land

Records within 500m	0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

2.1 Historical industrial land uses

Records within 500m	65

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19 >**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Brick Works**	**1883**	**2079216**
A	**On site**	**Unspecified Commercial/Industrial**	**1950**	**2058359**
A	**On site**	**Brick Works**	**1905**	**2116438**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Brick Works**	**1905**	**2116438**
1	38m S	Nursery	1978	2052812
A	46m S	Unspecified Tank	1883	2044647
B	204m S	Unspecified Pit	1905	2064846
B	204m S	Unspecified Pit	1905	2064846
B	205m S	Unspecified Pit	1950	2092653
2	205m S	Unspecified Pit	1950	2091917
B	208m S	Old Clay Pits	1883	2042527
C	226m S	Unspecified Ground Workings	1905	2099949
C	226m S	Unspecified Ground Workings	1905	2099949
B	248m S	Unspecified Pit	1950	2114695
C	253m S	Clay Pit	1883	2048286
D	256m SE	Brick Works	1905	2091447
D	256m SE	Brick Works	1905	2091447
E	258m SE	Brick Works	1883	2114941
F	273m E	Sewage Works	1978	2080597
G	276m SE	Sewage Works	1978	2080597
H	305m SE	Brick Works	1905	2080208
H	305m SE	Brick Works	1905	2080208
H	307m SE	Unspecified Disused Works	1950	2053734
G	322m E	Unspecified Tanks	1978	2055140
J	324m S	Unspecified Pit	1905	2099837
J	324m S	Unspecified Pit	1905	2099837
I	324m S	Unspecified Tank	1978	2044646
J	326m S	Unspecified Pit	1950	2085173
J	327m S	Unspecified Pit	1950	2092942
3	328m SE	Unspecified Pit	1950	2094302
E	354m SE	Unspecified Pit	1950	2101475

ID	Location	Land Use	Date	Group ID
J	365m S	Old Clay Pits	1883	2042528
F	370m E	Unspecified Tank	1978	2044644
E	389m SE	Unspecified Pit	1950	2065189
E	393m SE	Unspecified Pit	1905	2089089
E	393m SE	Unspecified Pit	1905	2089089
E	403m SE	Unspecified Tanks	1883	2055141
K	422m SE	Railway Sidings	1905	2106717
L	431m N	Cemetery	1950	2081408
L	432m N	Cemetery	1905	2115256
L	433m N	Cemetery	1978	2104000
L	433m N	Cemetery	1950	2115256
M	445m S	Brick Works	1905	2106993
M	445m S	Brick Works	1905	2106993
M	445m S	Disused Brick Works	1950	2058012
N	450m SE	Railway Sidings	1950	2101954
O	452m SE	Unspecified Pit	1950	2098642
O	452m SE	Unspecified Pit	1905	2090735
O	452m SE	Unspecified Pit	1905	2090735
N	452m SE	Railway Sidings	1950	2101954
O	454m SE	Unspecified Pit	1950	2098642
5	456m SE	Unspecified Ground Workings	1883	2060713
N	459m SE	Unspecified Kiln	1905	2045845
N	460m SE	Builders Yard	1978	2053518
6	460m NW	Cuttings	1978	2061823
7	460m E	Disused Brick Works	1950	2058013
N	466m SE	Unspecified Kiln	1950	2045844
P	467m S	Unspecified Pit	1905	2070818
P	467m S	Unspecified Pit	1905	2070818

ID	Location	Land Use	Date	Group ID
8	479m S	Clay Pit	1883	2048287
Q	492m SE	Unspecified Kiln	1905	2082532
K	497m SE	Unspecified Pit	1905	2118880
K	497m SE	Unspecified Pit	1905	2118880
Q	497m SE	Unspecified Kiln	1883	2110628
K	499m SE	Unspecified Pit	1950	2096201

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**9**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19 >**

ID	Location	Land Use	Date	Group ID
A	46m S	Unspecified Tank	1883	345468
I	324m S	Unspecified Tank	1973	354847
I	324m S	Unspecified Tank	1972	354847
I	324m S	Unspecified Tank	1987	357668
I	324m S	Unspecified Tank	1991	357668
I	324m S	Unspecified Tank	1991	357668
I	325m S	Unspecified Tank	1995	357668
E	402m SE	Tanks	1883	348712
4	438m SW	Tanks	1883	348713

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	0

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

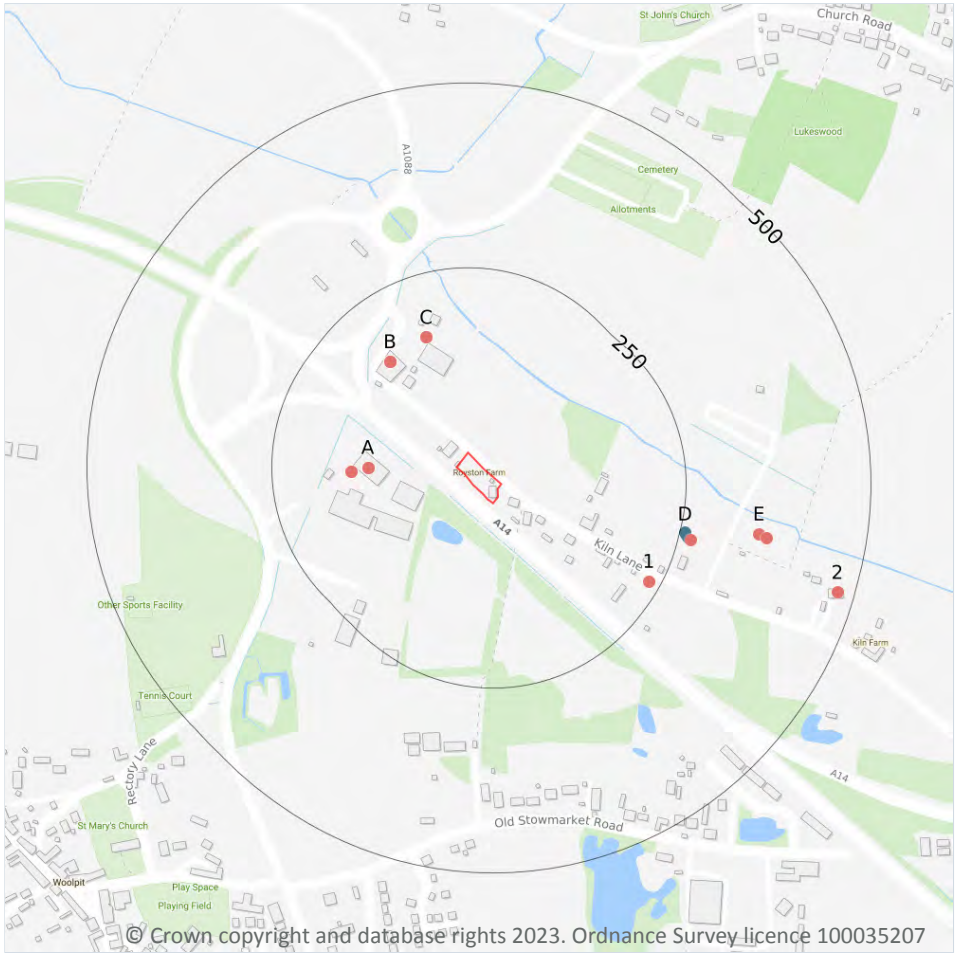
2.5 Historical garages

Records within 500m	0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Licensed waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m	0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m	0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m	1

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 24 >**

ID	Location	Details		
D	257m E	Site Name: C G Finch - Elmswell Site Address: The Store, Kiln Lane, Elmswell, Bury St Edmunds, Suffolk, IP30 9QR Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CGF001 EPR reference: EA/EPR/NP3395NK/A001 Operator: C G Finch Waste Management licence No: 70735 Annual Tonnage: 5000	Issue Date: 27/04/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m	25

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 24 >**

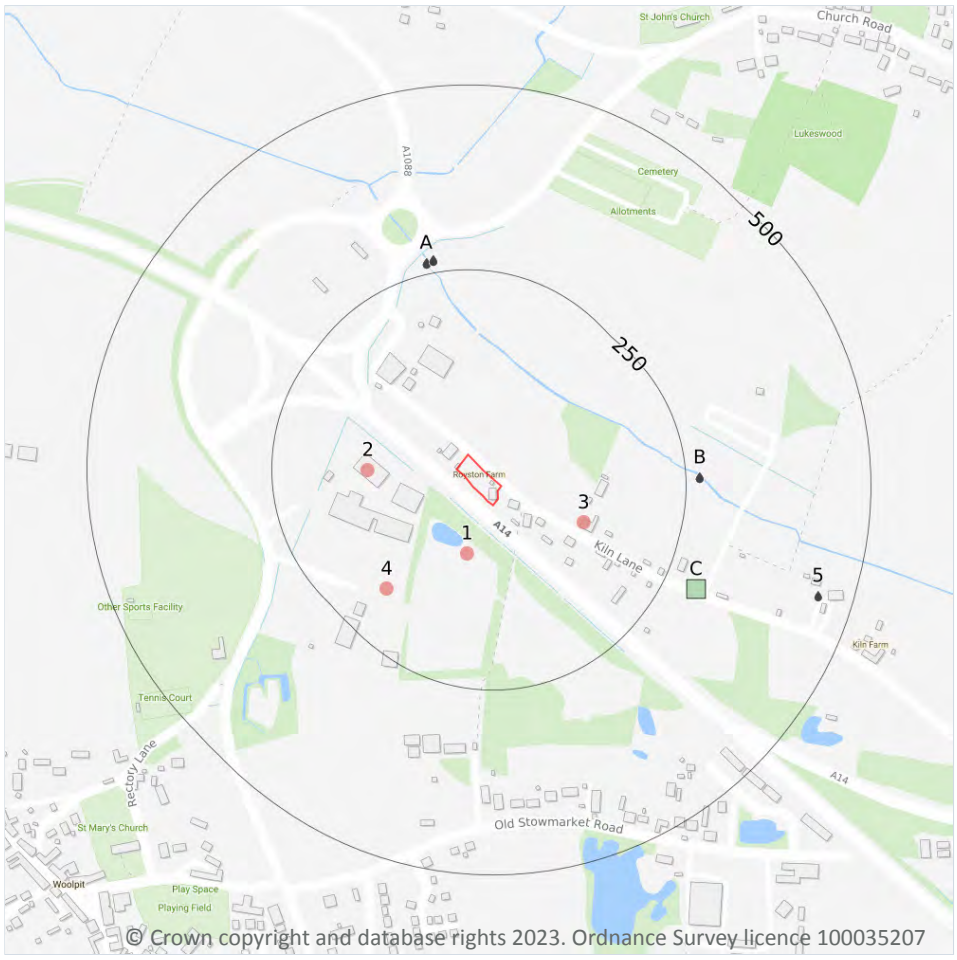
ID	Location	Site	Reference	Category	Sub-Category	Description
A	120m W	ELMSWELL ROAD, WOOLPIT, BURY ST. EDMUNDS, IP30 9RH	WEX168126	Disposing of waste exemption	On a farm	Burning waste in the open
A	120m W	ELMSWELL ROAD WOOLPIT BURY ST. EDMUNDS IP30 9RH	WEX007794	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
A	120m W	ELMSWELL ROAD WOOLPIT BURY ST. EDMUNDS IP30 9RH	WEX007794	Disposing of waste exemption	Not on a farm	Burning waste in the open
A	120m W	ELMSWELL ROAD, WOOLPIT, BURY ST. EDMUNDS, IP30 9RH	WEX301942	Disposing of waste exemption	On a Farm	Burning waste in the open
A	144m W	npa - Pond 25m From O C Jewers and Sons Ltd, Elmswell Road. A14 IP30 9RH	EPR/JH0770PG /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
A	144m W	npa - Pond 25m From O C Jewers and Sons Ltd, Elmswell Road. A14 IP30 9RH	EPR/JH0770PG /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
B	162m NW	CROSSWAYS, KILN LANE, ELMSWELL, BURY ST. EDMUNDS, IP30 9QR	WEX221137	Using waste exemption	On a Farm	Use of waste in construction
B	162m NW	CROSSWAYS, KILN LANE, ELMSWELL, BURY ST. EDMUNDS, IP30 9QR	WEX221137	Disposing of waste exemption	On a Farm	Burning waste in the open
B	162m NW	CROSSWAYS, KILN LANE, ELMSWELL, BURY ST. EDMUNDS, IP30 9QR	WEX221137	Storing waste exemption	On a Farm	Storage of waste in secure containers

ID	Location	Site	Reference	Category	Sub-Category	Description
B	162m NW	CROSSWAYS, KILN LANE, ELMSWELL, BURY ST. EDMUNDS, IP30 9QR	WEX075651	Disposing of waste exemption	On a farm	Burning waste in the open
B	162m NW	CROSSWAYS, KILN LANE, ELMSWELL, BURY ST. EDMUNDS, IP30 9QR	WEX075651	Storing waste exemption	On a farm	Storage of waste in secure containers
B	162m NW	CROSSWAYS, KILN LANE, ELMSWELL, BURY ST. EDMUNDS, IP30 9QR	WEX075651	Using waste exemption	On a farm	Use of waste in construction
B	162m NW	CROSSWAYS, KILN LANE, ELMSWELL, BURY ST. EDMUNDS, IP30 9QR	WEX345021	Using waste exemption	On a farm	Use of waste in construction
B	162m NW	CROSSWAYS, KILN LANE, ELMSWELL, BURY ST. EDMUNDS, IP30 9QR	WEX345021	Disposing of waste exemption	On a farm	Burning waste in the open
B	162m NW	CROSSWAYS, KILN LANE, ELMSWELL, BURY ST. EDMUNDS, IP30 9QR	WEX345021	Storing waste exemption	On a farm	Storage of waste in secure containers
C	165m N	Crossways Kiln Lane BURY ST. EDMUNDS Suffolk IP30 9QR	EPR/BF0632NE/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
C	165m N	Crossways Kiln Lane BURY ST. EDMUNDS Suffolk IP30 9QR	EPR/BF0632NE/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
C	165m N	Crossways Kiln Lane BURY ST. EDMUNDS Suffolk IP30 9QR	EPR/BF0632NE/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in secure containers
C	165m N	Crossways Kiln Lane BURY ST. EDMUNDS Suffolk IP30 9QR	EPR/BF0632NE/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in a secure place
C	165m N	Crossways Kiln Lane BURY ST. EDMUNDS Suffolk IP30 9QR	EPR/BF0632NE/A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
1	234m SE	Elmswell WRC, Kiln Lane, Elmswell, Bury St Edmunds, IP30 9QR	WEX139575	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	266m E	The Store Kiln Lane BURY ST. EDMUNDS Suffolk IP30 9QR	EPR/UE5059ZU/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
E	355m E	Land at TL9830062900	EPR/KE5782YY/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
E	366m E	Elmswell Sewage Works Elmswell Suffolk IP30 9QR	EPR/HE5058AZ/A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of waste at a waste water treatment works
2	477m E	TEN TEN, KILN LANE, ELMSWELL, BURY ST. EDMUNDS, IP30 9QR	WEX165929	Treating waste exemption	Not on a farm	Recovery of waste at a waste water treatment works

This data is sourced from the Environment Agency and Natural Resources Wales.

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Licensed Discharges to controlled waters

List 2 Dangerous Substances

4.1 Recent industrial land uses

Records within 250m	4

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 29 >**

ID	Location	Company	Address	Activity	Category
1	74m S	Mast	Suffolk, IP30	Telecommunications Features	Infrastructure and Facilities
2	120m W	Jewers	-, Elmswell Road, Woolpit, Suffolk, IP30 9RH	Agricultural Machinery and Goods	Industrial Products
3	120m E	C G Finch & Son	C Finch, Kiln Lane, Elmswell, Suffolk, IP30 9QR	Scrap Metal Merchants	Recycling Services

ID	Location	Company	Address	Activity	Category
4	181m SW	Goldstar Transport Ltd	Goldstar Transport Ltd, Elmswell Road, Woolpit, Suffolk, IP30 9RH	Distribution and Haulage	Transport, Storage and Delivery

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m	0

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m	37

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 29 >**

ID	Location	Address	Details	
A	265m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 11 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 16/03/2010 Effective Date: 22/12/2012 Revocation Date: 26/02/2015
A	265m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 5 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 09/12/2002 Effective Date: 01/04/2003 Revocation Date: 15/11/2006
A	265m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 4 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 15/08/2002 Effective Date: 15/08/2002 Revocation Date: 31/03/2003
A	265m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 15 Receiving Water: River Sapiston	Status: VARIED UNDER EPR 2010 Issue date: 01/02/2022 Effective Date: 01/02/2022 Revocation Date: 15/09/2022
A	265m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 4 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 15/08/2002 Effective Date: 15/08/2002 Revocation Date: 31/03/2003

ID	Location	Address	Details	
A	265m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 8 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 16/11/2009 Effective Date: 16/11/2009 Revocation Date: 15/03/2010
A	265m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 7 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 14/10/2008 Effective Date: 01/04/2009 Revocation Date: 15/11/2009
A	265m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 10 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 31/03/2010 Effective Date: 31/03/2010 Revocation Date: 03/11/2010
A	265m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 6 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 02/11/2006 Effective Date: 16/11/2006 Revocation Date: 31/03/2009
A	265m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 6 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 02/11/2006 Effective Date: 16/11/2006 Revocation Date: 31/03/2009
A	265m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 5 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 09/12/2002 Effective Date: 01/04/2003 Revocation Date: 15/11/2006
A	265m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 12 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 04/11/2010 Effective Date: 04/11/2010 Revocation Date: 21/12/2012

ID	Location	Address	Details	
A	265m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 9 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 16/03/2010 Effective Date: 16/03/2010 Revocation Date: 30/03/2010
A	265m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 14 Receiving Water: River Sapiston	Status: VARIED UNDER EPR 2010 Issue date: 27/02/2015 Effective Date: 27/02/2015 Revocation Date: 31/01/2022
A	265m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 16 Receiving Water: River Sapiston	Status: VARIED UNDER EPR 2010 Issue date: 16/09/2022 Effective Date: 16/09/2022 Revocation Date: -
A	266m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 1 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 25/11/1989 Effective Date: 25/11/1989 Revocation Date: 30/06/1991
A	266m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 1 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 25/11/1989 Effective Date: 25/11/1989 Revocation Date: 30/06/1991
A	266m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 3 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 25/11/1989 Effective Date: 01/01/1992 Revocation Date: 14/08/2002
A	266m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 1 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 25/11/1989 Effective Date: 25/11/1989 Revocation Date: 30/06/1991

ID	Location	Address	Details	
A	266m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 4 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 15/08/2002 Effective Date: 15/08/2002 Revocation Date: 31/03/2003
A	266m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 3 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 25/11/1989 Effective Date: 01/01/1992 Revocation Date: 14/08/2002
A	266m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 3 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 25/11/1989 Effective Date: 01/01/1992 Revocation Date: 14/08/2002
A	266m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 2 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 25/11/1989 Effective Date: 01/07/1991 Revocation Date: 31/12/1991
A	266m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 2 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 25/11/1989 Effective Date: 01/07/1991 Revocation Date: 31/12/1991
A	266m N	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 2 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 25/11/1989 Effective Date: 01/07/1991 Revocation Date: 31/12/1991
B	268m E	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 11 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 16/03/2010 Effective Date: 22/12/2012 Revocation Date: 26/02/2015

ID	Location	Address	Details	
B	268m E	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 7 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 14/10/2008 Effective Date: 01/04/2009 Revocation Date: 15/11/2009
B	268m E	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 8 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 16/11/2009 Effective Date: 16/11/2009 Revocation Date: 15/03/2010
B	268m E	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 14 Receiving Water: River Sapiston	Status: VARIED UNDER EPR 2010 Issue date: 27/02/2015 Effective Date: 27/02/2015 Revocation Date: 31/01/2022
B	268m E	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 5 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 09/12/2002 Effective Date: 01/04/2003 Revocation Date: 15/11/2006
B	268m E	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 6 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 02/11/2006 Effective Date: 16/11/2006 Revocation Date: 31/03/2009
B	268m E	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 12 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 04/11/2010 Effective Date: 04/11/2010 Revocation Date: 21/12/2012
B	268m E	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 15 Receiving Water: River Sapiston	Status: VARIED UNDER EPR 2010 Issue date: 01/02/2022 Effective Date: 01/02/2022 Revocation Date: 15/09/2022

ID	Location	Address	Details	
B	268m E	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 10 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 31/03/2010 Effective Date: 31/03/2010 Revocation Date: 03/11/2010
B	268m E	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 9 Receiving Water: River Sapiston	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 16/03/2010 Effective Date: 16/03/2010 Revocation Date: 30/03/2010
B	268m E	ELMSWELL WATER RECYCLING CENTRE, KILN LANE, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP30 9QR	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: ASCNF1065 Permit Version: 16 Receiving Water: River Sapiston	Status: VARIED UNDER EPR 2010 Issue date: 16/09/2022 Effective Date: 16/09/2022 Revocation Date: -
5	452m E	KILN FARM, ELMSWELL, BURY ST EDMUNDS, SUFFOLK, IP31 3HN	Effluent Type: UNSPECIFIED Permit Number: PR1LF3386 Permit Version: 1 Receiving Water: into Land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 23/08/1988 Effective Date: 23/08/1988 Revocation Date: 05/06/1997

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m	2

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 29 >**

ID	Location	Name	Status	Receiving Water	Authorised Substances
C	294m SE	Industrial Water Jetting Systems Limited	Not Active	Na	pH
C	294m SE	Elmswell Stw	Not Active	-	-

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m	0

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m	0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m	0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

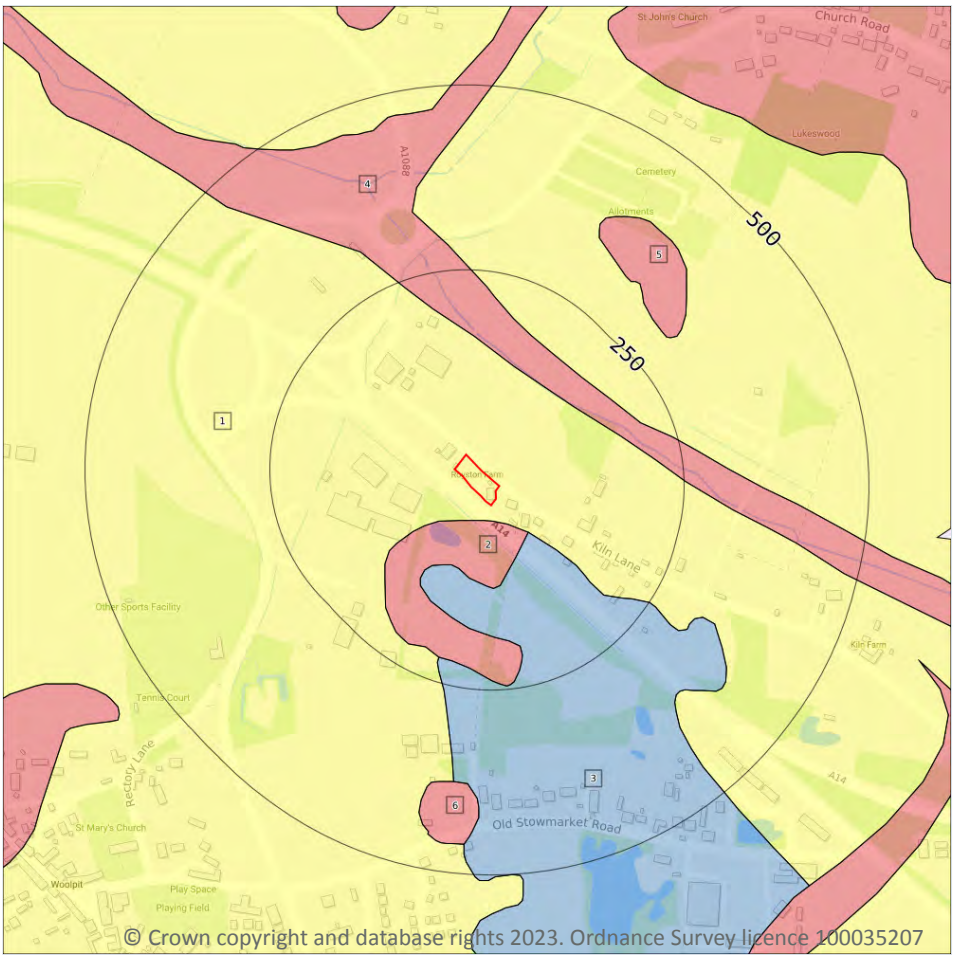
4.21 Pollution inventory radioactive waste

Records within 500m	0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

5.1 Superficial aquifer

Records within 500m	6

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 40 >**

ID	Location	Designation	Description
1	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
2	21m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	62m SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
4	135m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	303m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	377m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer

Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m	1

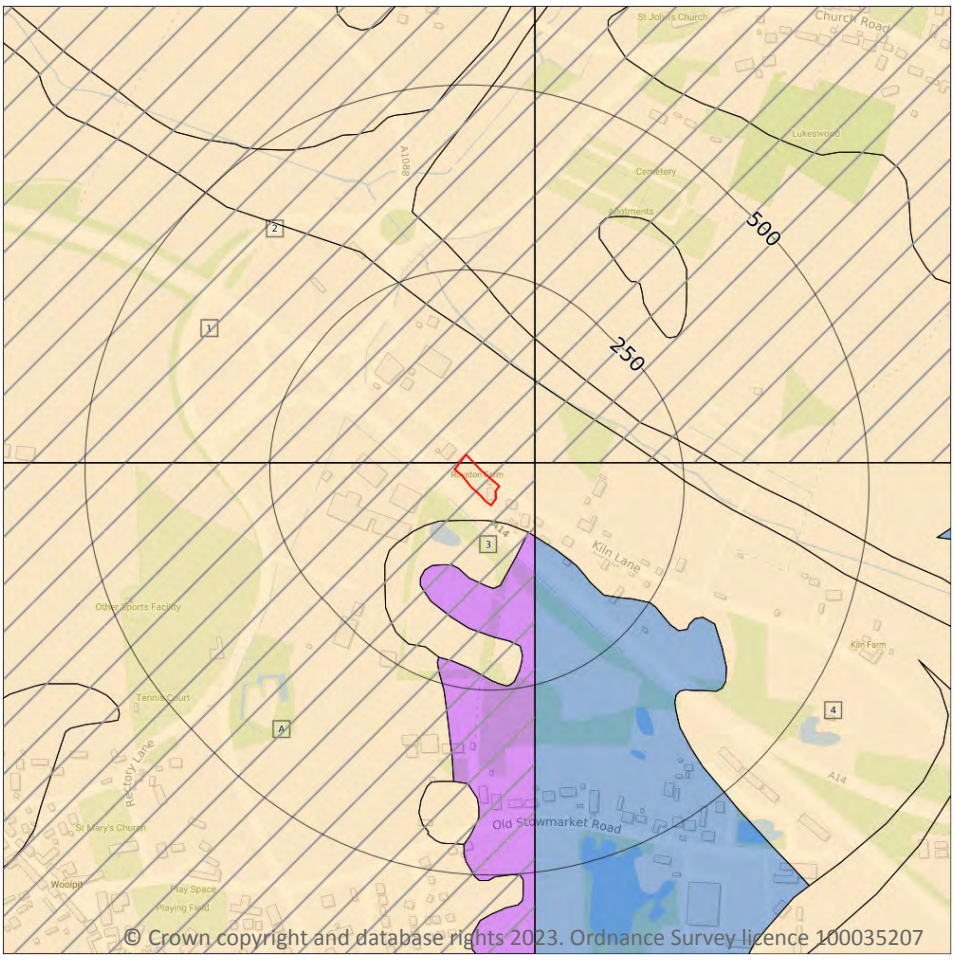
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 42 >**

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability
- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability
- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information
- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	4

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 43 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures**
A	**On site**	**Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High**	**Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures**
3	21m S	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
4	48m E	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Intergranular

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	**2**

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
2	**Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.**	**36.0%**
A	**Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.**	**0.0%**

This data is sourced from the British Geological Survey and the Environment Agency.

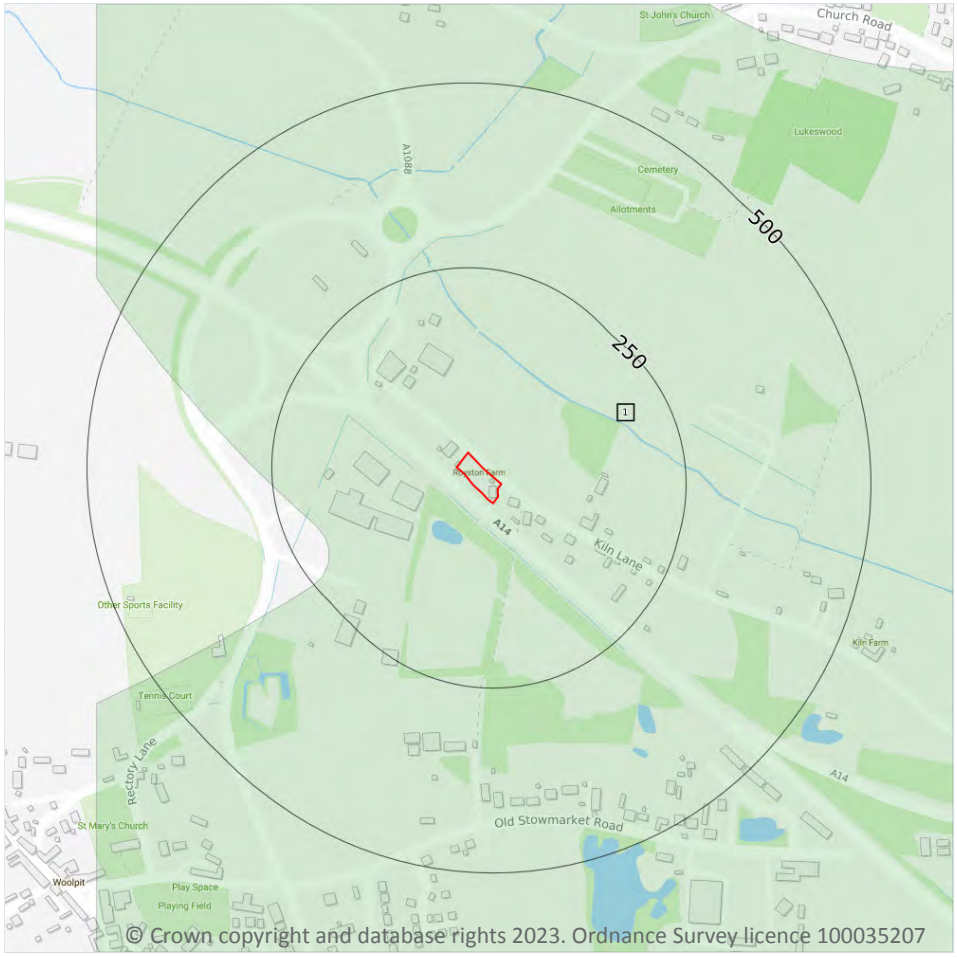
5.5 Groundwater vulnerability- local information

Records on site	0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- Drinking water abstraction licences — Polygon features
- Drinking water abstraction licences — Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	12

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 46 >**

ID	Location	Details	
-	978m N	Status: Historical Licence No: 6/33/41/*G/0029 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL 1 AT CROSS WAYS Data Type: Point Name: BAKER Easting: 598040 Northing: 263980	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/12/1969 Version End Date: -
-	1090m N	Status: Historical Licence No: 6/33/41/*G/0029 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL 2 AT KILN LANE Data Type: Point Name: BAKER Easting: 597850 Northing: 264100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/12/1969 Version End Date: -
-	1132m NW	Status: Historical Licence No: 6/33/41/*G/0120 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL AT WOOLPIT Data Type: Point Name: ANGLIAN WATER SERVICES LTD Easting: 596870 Northing: 263480	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/12/1972 Expiry Date: - Issue No: 100 Version Start Date: 01/11/1979 Version End Date: -
-	1329m NE	Status: Historical Licence No: 6/33/41/*G/0043 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 1 AT ELMSWELL Data Type: Point Name: R BAKER & SON (ELMSWELL) LTD Easting: 598900 Northing: 263900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/06/1966 Version End Date: -
-	1329m NE	Status: Historical Licence No: 6/33/41/*G/0043 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE 2 AT CATTLE PENS Data Type: Point Name: R BAKER & SON (ELMSWELL) LTD Easting: 598900 Northing: 263900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/06/1966 Version End Date: -

ID	Location	Details	
-	1355m NW	Status: Historical Licence No: 6/33/41/*G/0069 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT ELMSWELL NEW HALL Data Type: Point Name: LANDLARK INVESTMENTS LTD Easting: 597100 Northing: 264100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/08/1996 Version End Date: -
-	1355m NW	Status: Historical Licence No: 6/33/41/*G/0069 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT ELMSWELL NEW HALL Data Type: Point Name: LANDLARK INVESTMENTS LTD Easting: 597100 Northing: 264100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/08/1996 Version End Date: -
-	1408m NE	Status: Historical Licence No: 6/33/41/*G/0158 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE B AT ELMSWELL Data Type: Point Name: GRAMPIAN COUNTRY PORK HARRIS Easting: 598800 Northing: 264100	Annual Volume (m^3): 363680 Max Daily Volume (m^3): 1409 Original Application No: - Original Start Date: 06/10/1988 Expiry Date: - Issue No: 101 Version Start Date: 19/10/2001 Version End Date: -
-	1408m NE	Status: Historical Licence No: 6/33/41/*G/0158 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE C AT ELMSWELL Data Type: Point Name: GRAMPIAN COUNTRY PORK HARRIS Easting: 598800 Northing: 264100	Annual Volume (m^3): 363680 Max Daily Volume (m^3): 1409 Original Application No: - Original Start Date: 06/10/1988 Expiry Date: - Issue No: 101 Version Start Date: 19/10/2001 Version End Date: -
-	1474m N	Status: Historical Licence No: 6/33/41/*G/0086 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT ELMSWELL HALL Data Type: Point Name: CHAPLIN Easting: 598400 Northing: 264400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/04/1967 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1967 Version End Date: -

ID	Location	Details	
-	1541m NE	Status: Historical Licence No: 6/33/41/*G/0158 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE D AT ELMSWELL Data Type: Point Name: GRAMPIAN COUNTRY PORK HARRIS Easting: 598850 Northing: 264230	Annual Volume (m^3): 363680 Max Daily Volume (m^3): 1409 Original Application No: - Original Start Date: 06/10/1988 Expiry Date: - Issue No: 101 Version Start Date: 19/10/2001 Version End Date: -
-	1884m NW	Status: Historical Licence No: 6/33/41/*G/0044 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT TOSTOCK OLD HALL Data Type: Point Name: ERRINGTON R N Easting: 596300 Northing: 264000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/03/1966 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m	0

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	1

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 46 >**

ID	Location	Details	
-	1355m NW	Status: Historical Licence No: 6/33/41/*G/0069 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT ELMSWELL NEW HALL Data Type: Point Name: LANDLARK INVESTMENTS LTD Easting: 597100 Northing: 264100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/12/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/08/1996 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	**1**

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

Features are displayed on the Abstractions and Source Protection Zones map on **page 46 >**

ID	Location	Type	Description
1	**On site**	**3**	**Total catchment**

This data is sourced from the Environment Agency and Natural Resources Wales.

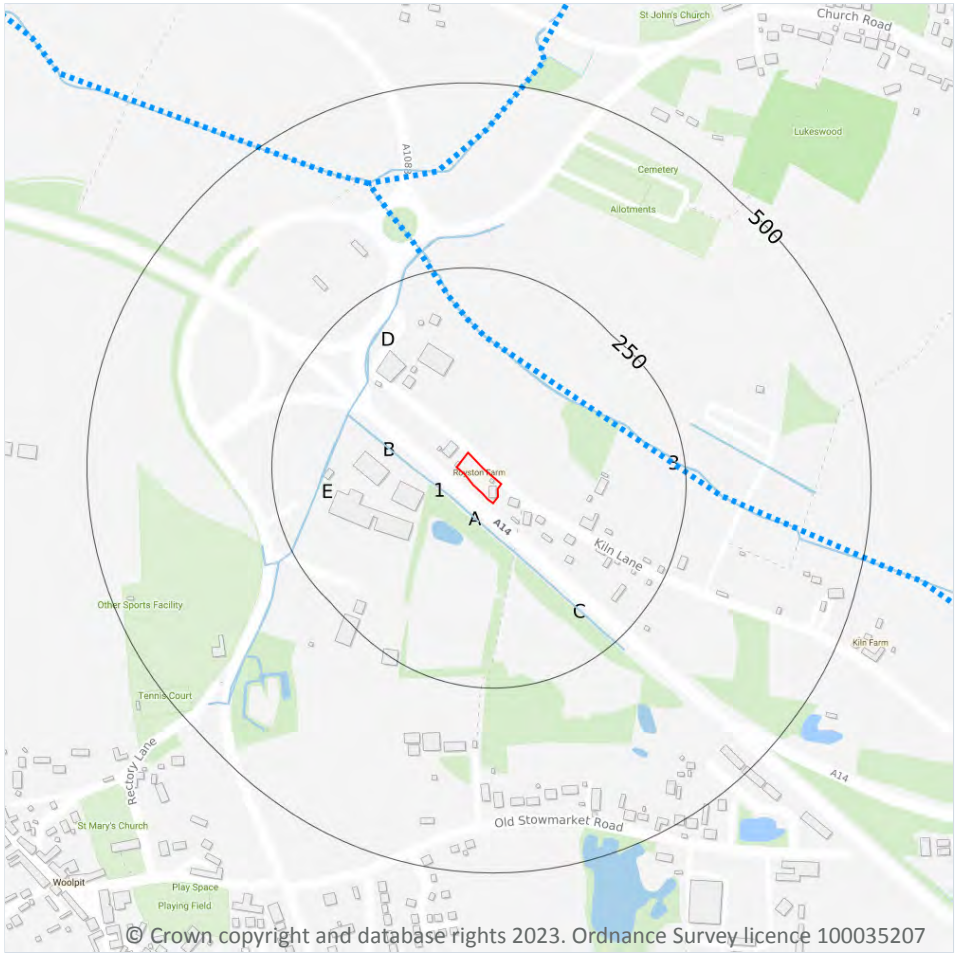
5.10 Source Protection Zones (confined aquifer)

Records within 500m	**0**

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	9

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 51 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	30m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
A	32m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
1	33m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
B	58m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	74m SE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
C	77m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	136m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	163m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	163m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	**13**

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 51 >**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 51 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	**On site**	**River**	**Sapiston**	**GB105033043280**	**Little Ouse and Thet**	**Cam and Ely Ouse**

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 51 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
4	143m NE	River	Sapiston	GB105033043280 ↗	Moderate	Fail	Moderate	2019

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 51 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	**On site**	**Cam and Ely Ouse Chalk**	**GB40501G400500** ↗	**Poor**	**Poor**	**Poor**	**2019**

This data is sourced from the Environment Agency and Natural Resources Wales.

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m	0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m	0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m	0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m	0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m	0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

8 Surface water flooding

8.1 Surface water flooding

Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

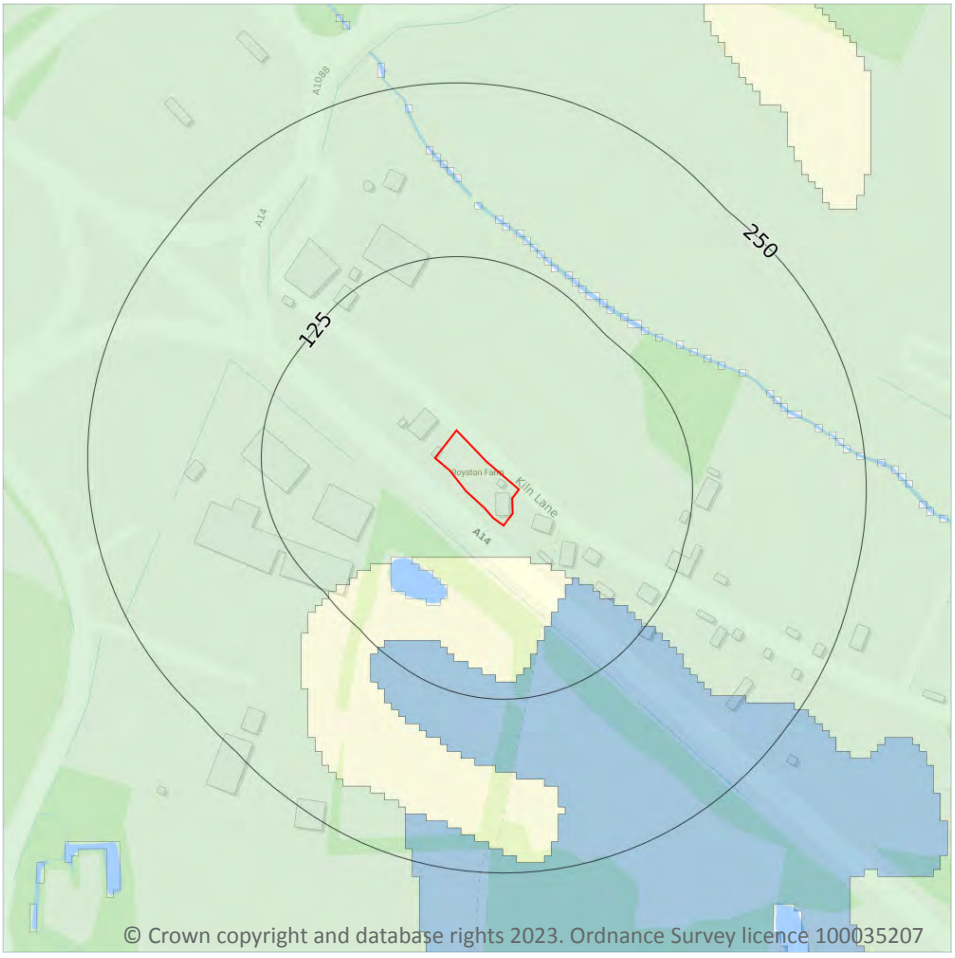
Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

Highest risk on site	**Low**
Highest risk within 50m	**Moderate**

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 59 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations

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Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	1

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 60 >**

ID	Location	Name	Data source
-	1391m N	Norton Wood	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m	0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m	0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m	4

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 60 >**

ID	Location	Name	Woodland Type
1	1369m NW	Norton Wood	Ancient & Semi-Natural Woodland
-	1394m N	Norton Wood	Ancient & Semi-Natural Woodland
-	1402m W	Bridge Farm Wood	Ancient & Semi-Natural Woodland
-	1885m SE	Unknown	Ancient Replanted Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m	0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m	0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m	0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m	0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

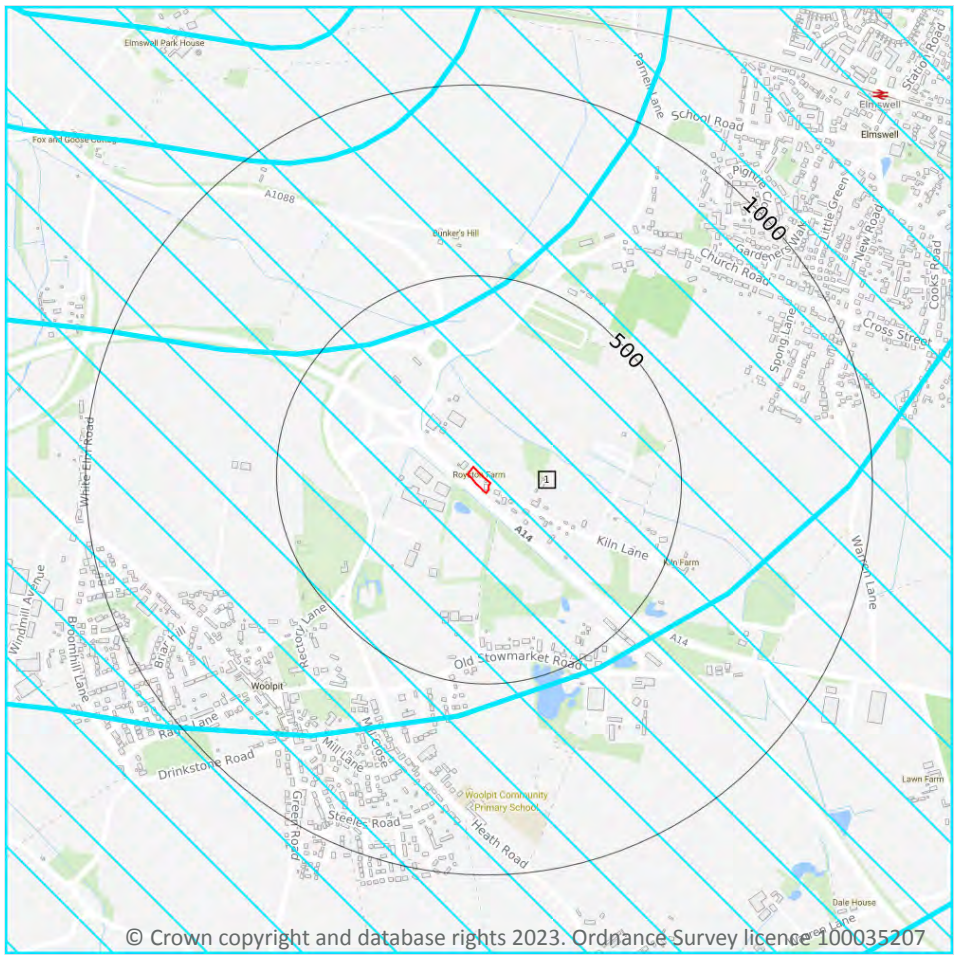
Records within 2000m	3

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	**Ely Ouse and Cut-off channel NVZ**	**Surface Water**	**390**	**Existing**
1372m E	River Gipping NVZ	Surface Water	416	Existing
1392m E	Sandlings and Chelmsford	Groundwater	78	Existing

This data is sourced from Natural England and Natural Resources Wales.

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 65 >**

ID	Location	Type of developments requiring consultation
1	On site	**Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	**1**

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on **page 65 >**

ID: -
Location: 1391m N
SSSI name: Norton Wood
Unit name: Norton Wood
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	06/10/2006

This data is sourced from Natural England and Natural Resources Wales.

11 Visual and cultural designations

Site Outline

Search buffers in metres (m)

Listed buildings

Conservation areas

Conservation areas - no data

National Parks

Areas of Outstanding Natural Beauty

Registered parks and gardens

Scheduled Monuments

World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m	0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m	1

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 67 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	123m NW	Cross Ways	II	1032471	09/05/1988

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m	0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m	0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

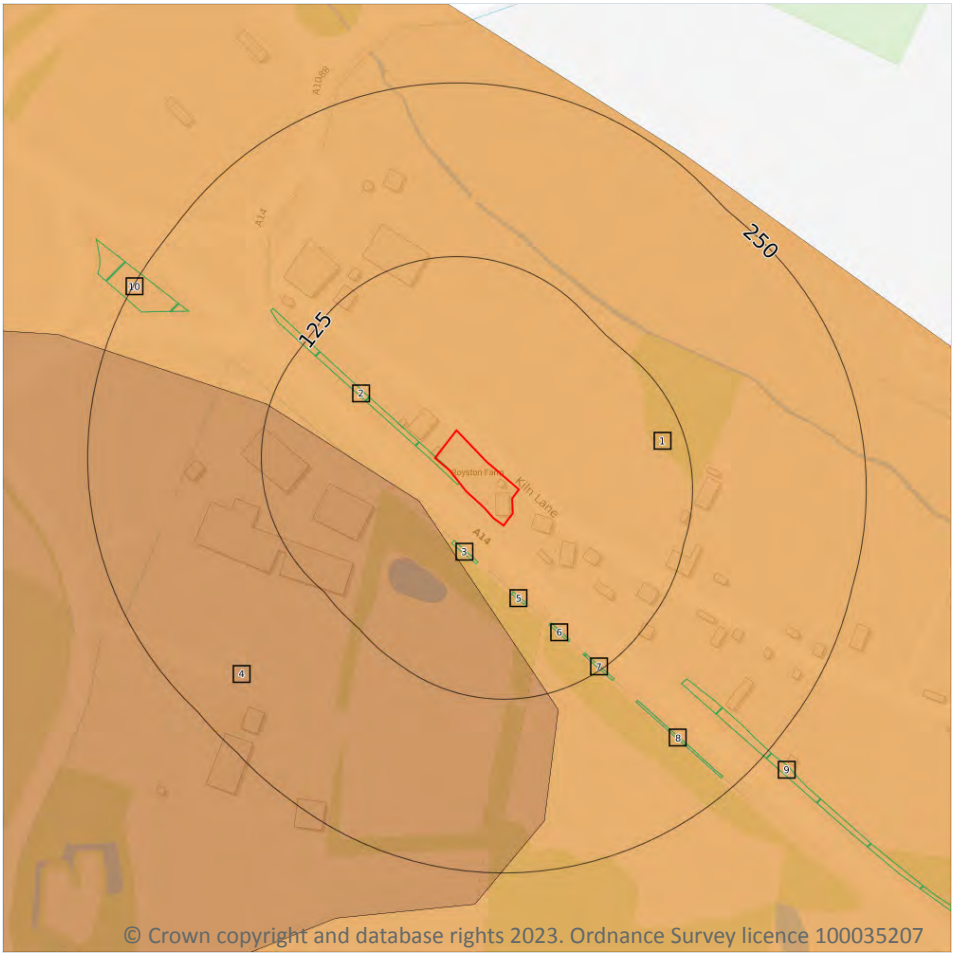
11.7 Registered Parks and Gardens

Records within 250m	0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	2

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 70 >**

ID	Location	Classification	Description
1	On site	Grade 3	**Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.**

ID	Location	Classification	Description
4	31m W	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	**0**

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m	**8**

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

Features are displayed on the Agricultural designations map on **page 70 >**

ID	Location	Description	Reference	Application date
2	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
3	31m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
5	48m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
6	78m SE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
7	109m SE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
8	159m SE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
9	171m SE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
10	206m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.

13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m	0

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

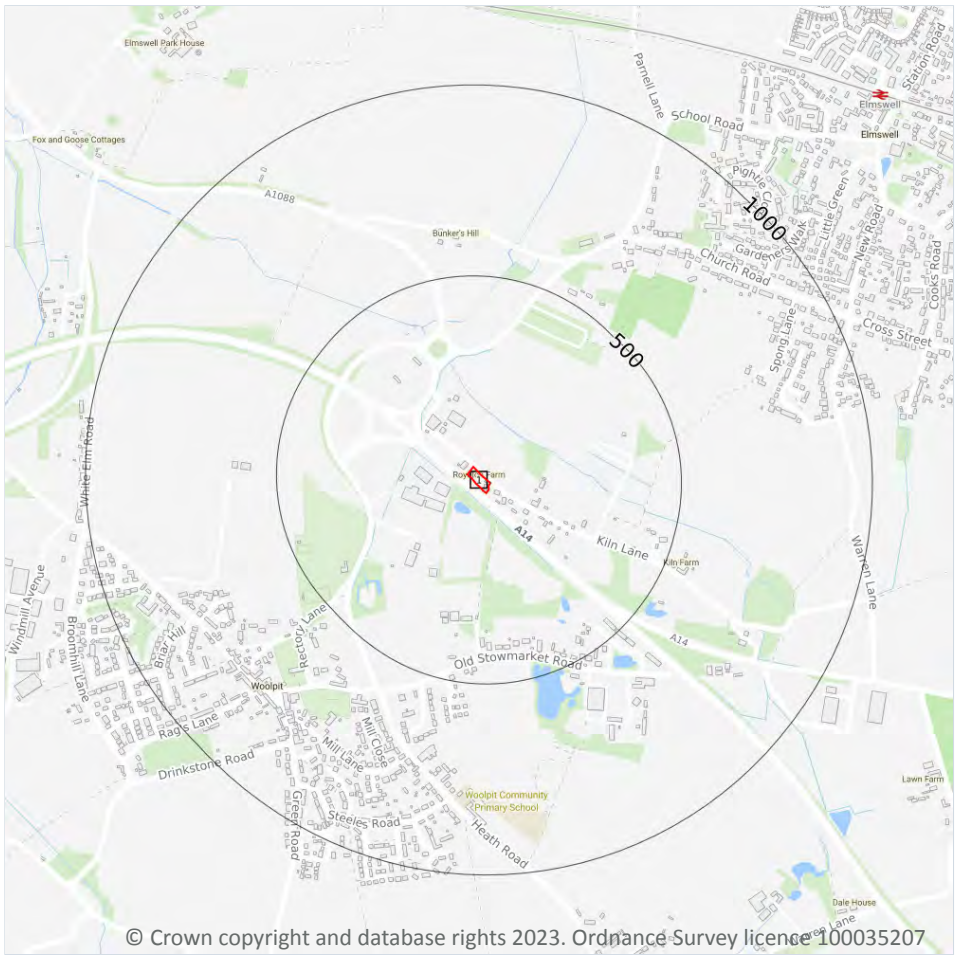
13.4 Limestone Pavement Orders

Records within 250m	0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 74 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**No coverage**	**No coverage**	**No coverage**	**No coverage**	**NoCov**

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground

14.2 Artificial and made ground (10k)

Records within 500m	0

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m	0

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

This data is sourced from the British Geological Survey.

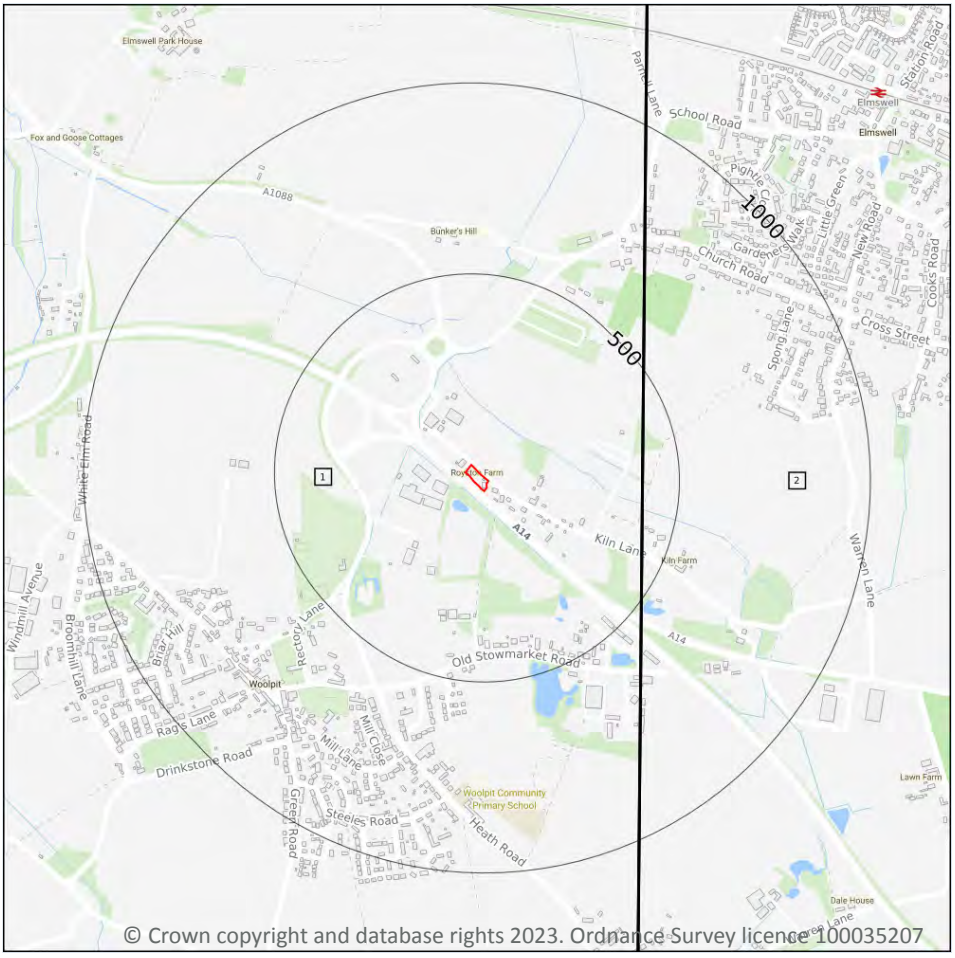
14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	2

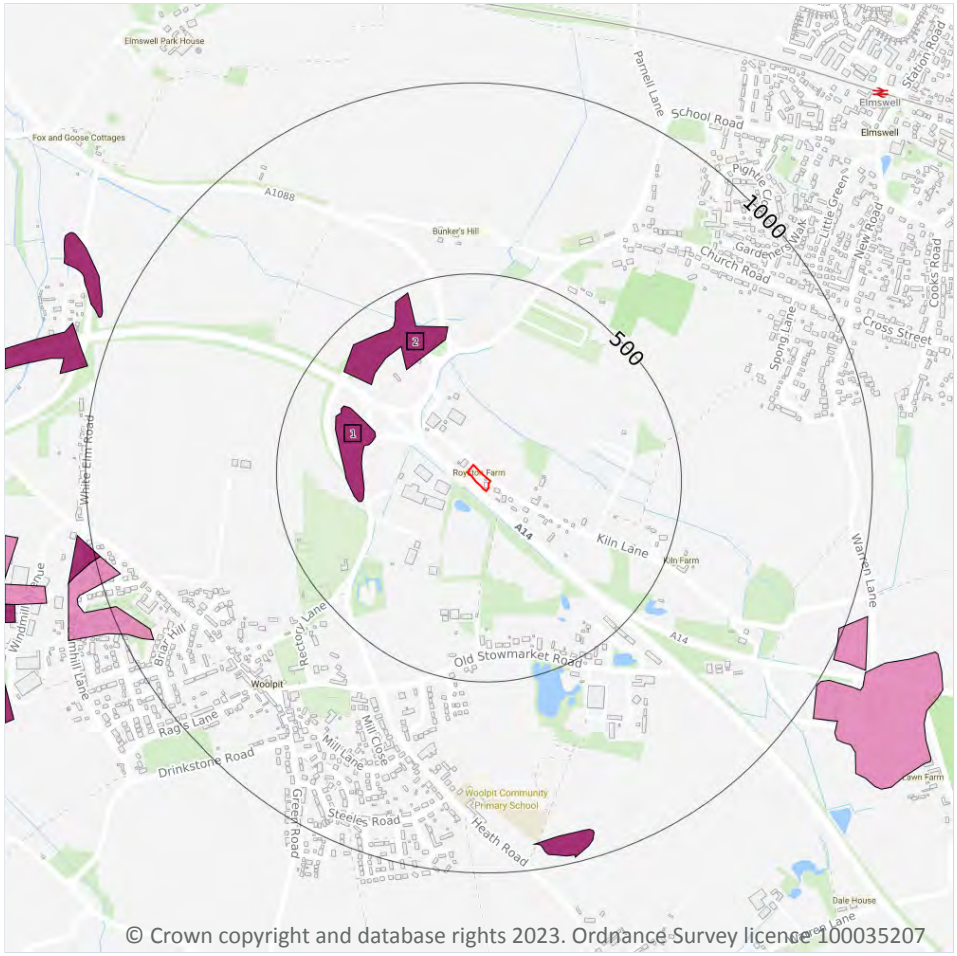
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 78 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**EW189_bury_st_edmunds_v4**
2	403m E	Full	Full	Full	No coverage	EW190_eye_v4

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground



15.2 Artificial and made ground (50k)

Records within 500m	2

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 79 >**

ID	Location	LEX Code	Description	Rock description
1	258m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	304m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

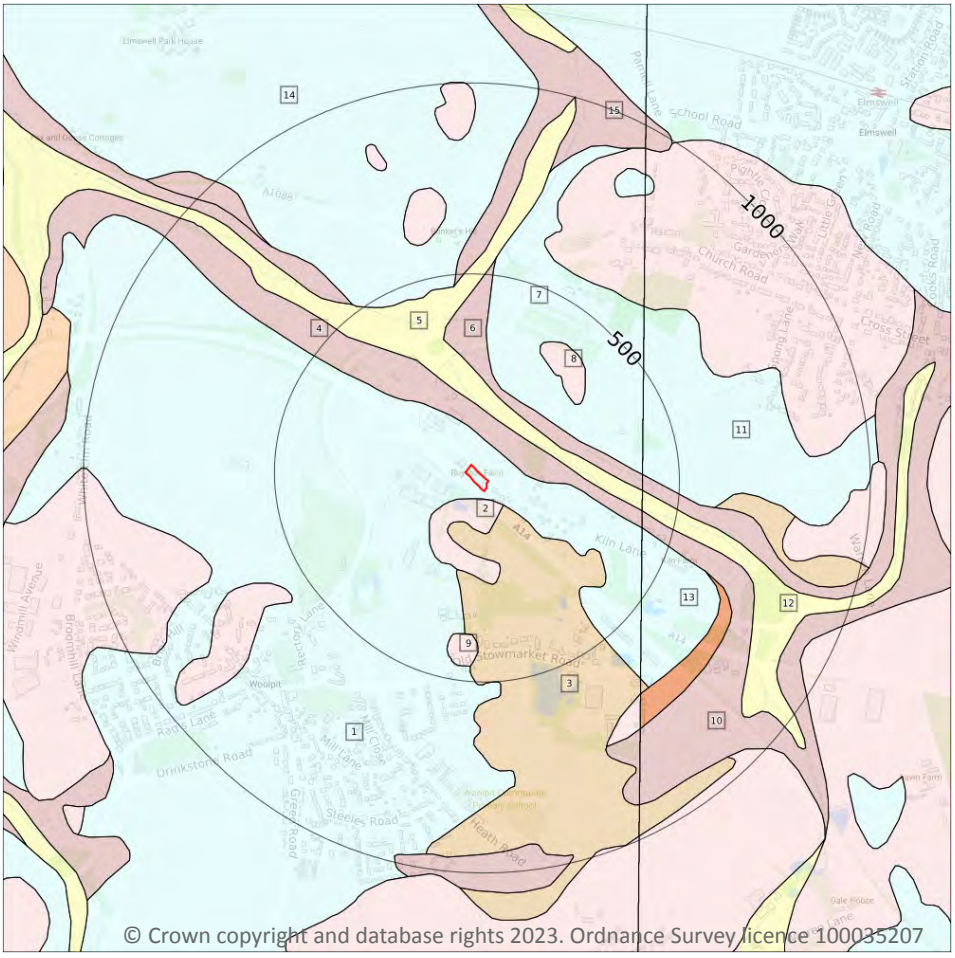
15.3 Artificial ground permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m **15**

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 81 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**LOFT-DMTN**	**LOWESTOFT FORMATION**	**DIAMICTON**
2	21m S	CXSG-XSV	CROXTON SAND AND GRAVEL MEMBER	SAND AND GRAVEL
3	62m SE	WPIT-XCZ	WOOLPIT BEDS	CLAY AND SILT

ID	Location	LEX Code	Description	Rock description
4	73m N	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
5	135m N	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
6	180m NE	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
7	208m NE	LOFT-DMTN	LOWESTOFT FORMATION	DIAMICTON
8	303m NE	CXSG-XSV	CROXTON SAND AND GRAVEL MEMBER	SAND AND GRAVEL
9	377m S	CXSG-XSV	CROXTON SAND AND GRAVEL MEMBER	SAND AND GRAVEL
10	403m E	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
11	404m E	LOFT-DMTN	LOWESTOFT FORMATION	DIAMICTON
12	404m E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
13	420m E	LOFT-DMTN	LOWESTOFT FORMATION	DIAMICTON
14	456m N	LOFT-DMTN	LOWESTOFT FORMATION	DIAMICTON
15	469m N	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m **2**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**Moderate**	**Low**
21m S	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

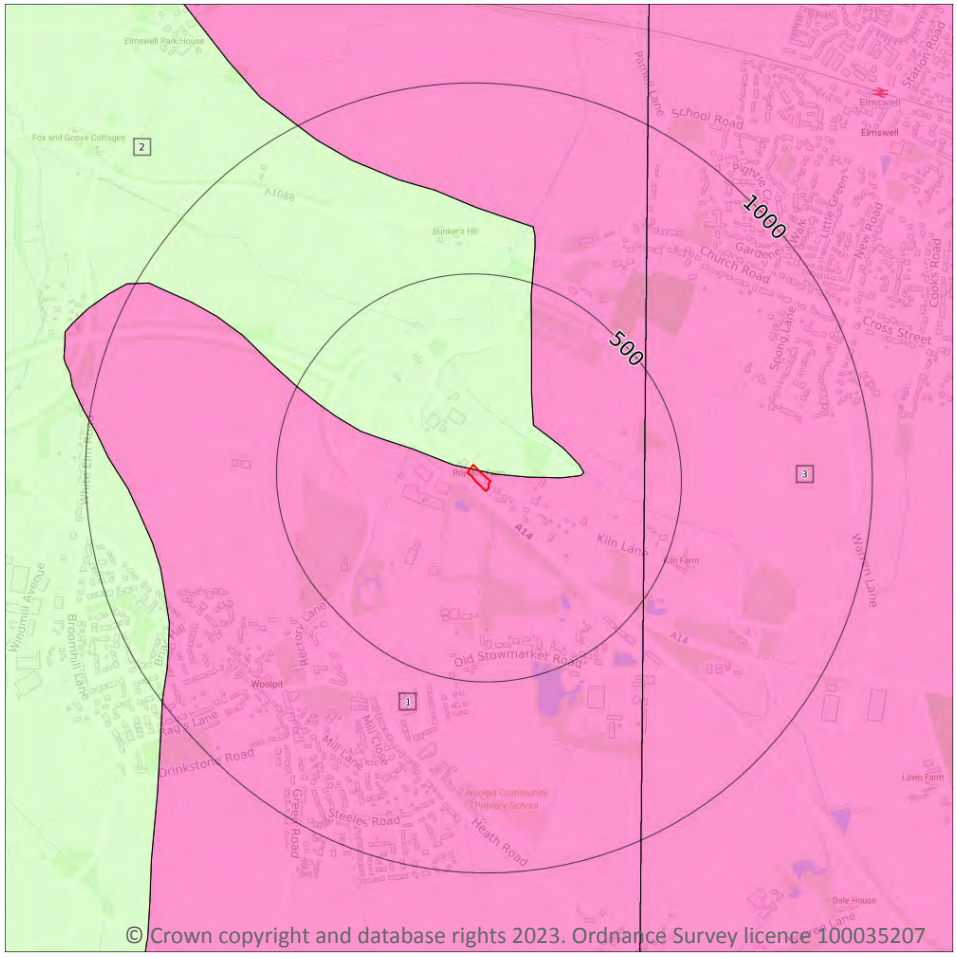
15.7 Landslip permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m **3**

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 84 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**CRAG-S**	**CRAG GROUP - SAND**	**-**
2	**On site**	**LCCK-CHLK**	**LEWES NODULAR CHALK FORMATION, SEAFORD CHALK FORMATION, NEWHAVEN CHALK FORMATION AND CULVER CHALK FORMATION (UNDIFFERENTIATED) - CHALK**	**TURONIAN**
3	403m E	CRAG-S	CRAG GROUP - SAND	-

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Very High**	**Very High**
On site	**Intergranular**	**High**	**High**

This data is sourced from the British Geological Survey.

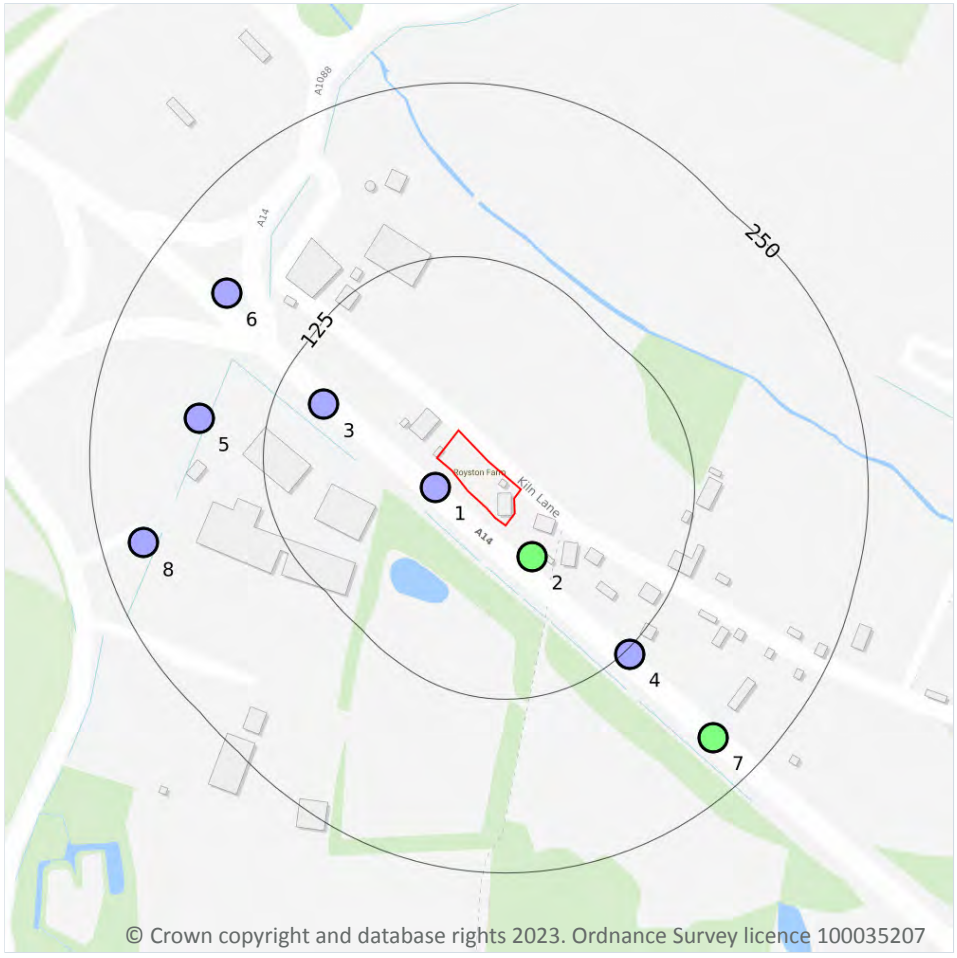
15.10 Bedrock faults and other linear features (50k)

Records within 500m	0

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.

16 Boreholes



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Site Outline

Search buffers in metres (m)

Confidential

0 - 10m

10 - 30m

30m+

Unknown

16.1 BGS Boreholes

Records within 250m	8

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

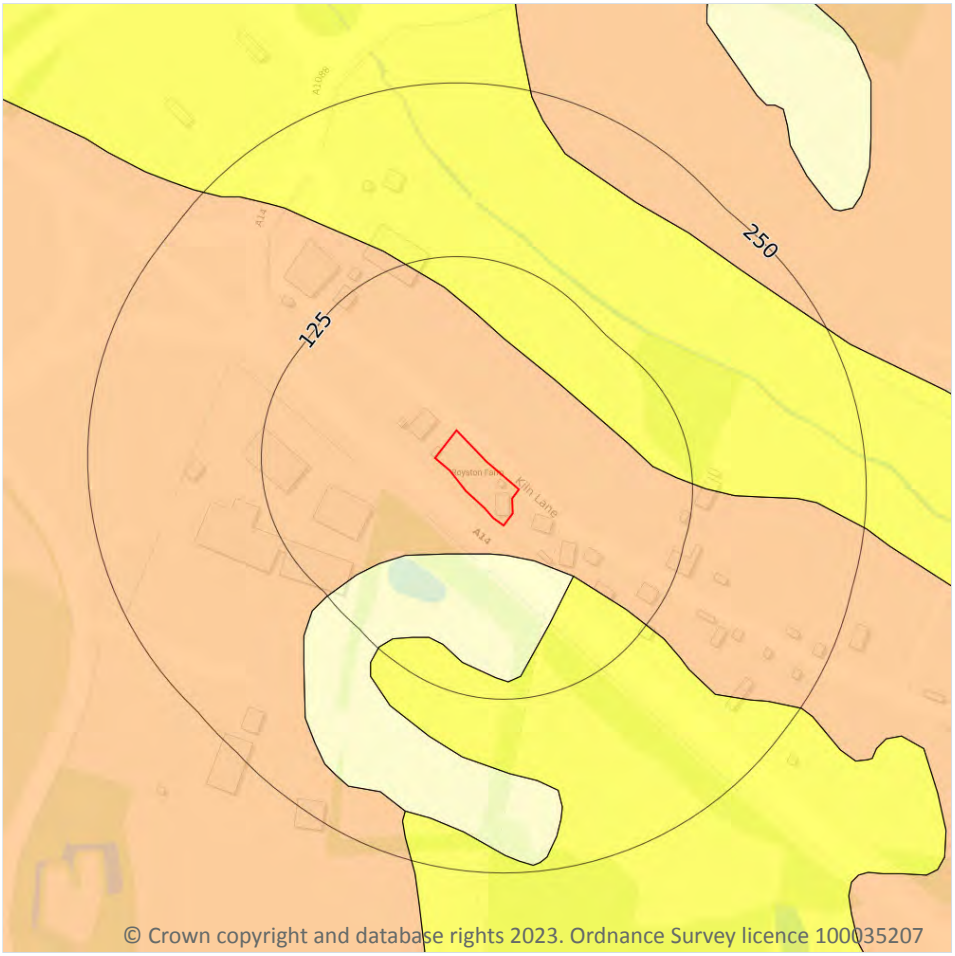
Features are displayed on the Boreholes map on **page 86 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	17m W	597890 262970	A45 IMPROVEMENT BURY-STOWMARKET B.140	2.3	N	556554 ↗
2	30m SE	597960 262920	A45 IMPROVEMENT BURY-STOWMARKET B.141	12.15	N	556555 ↗
3	90m NW	597810 263030	A45 IMPROVEMENT BURY-STOWMARKET B.139	2.0	N	556553 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	129m SE	598030 262850	A45 IMPROVEMENT BURY-STOWMARKET B.142	2.0	N	556556 ↗
5	174m W	597720 263020	A45 IMPROVEMENT BURY-STOWMARKET B.123	2.0	N	556537 ↗
6	193m NW	597740 263110	A45 IMPROVEMENT BURY-STOWMARKET B.138	2.3	N	556552 ↗
7	213m SE	598090 262790	A45 IMPROVEMENT BURY-STOWMARKET B.143	12.15	N	556557 ↗
8	220m W	597680 262930	A45 IMPROVEMENT BURY-STOWMARKET B.122	2.0	N	556534 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m	2

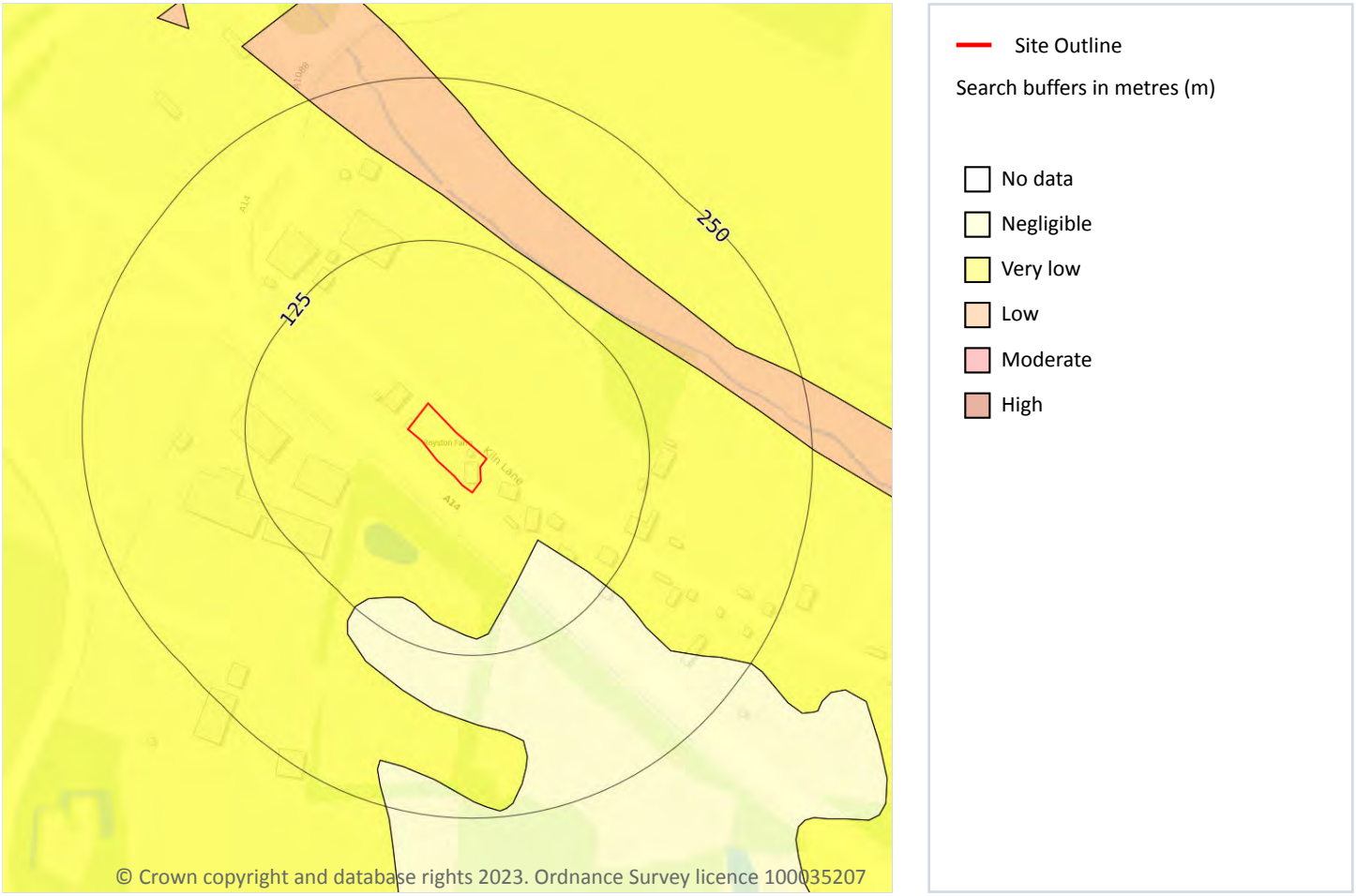
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 88 >**

Location	Hazard rating	Details
On site	**Low**	**Ground conditions predominantly medium plasticity.**
21m S	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



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17.2 Running sands

Records within 50m	1

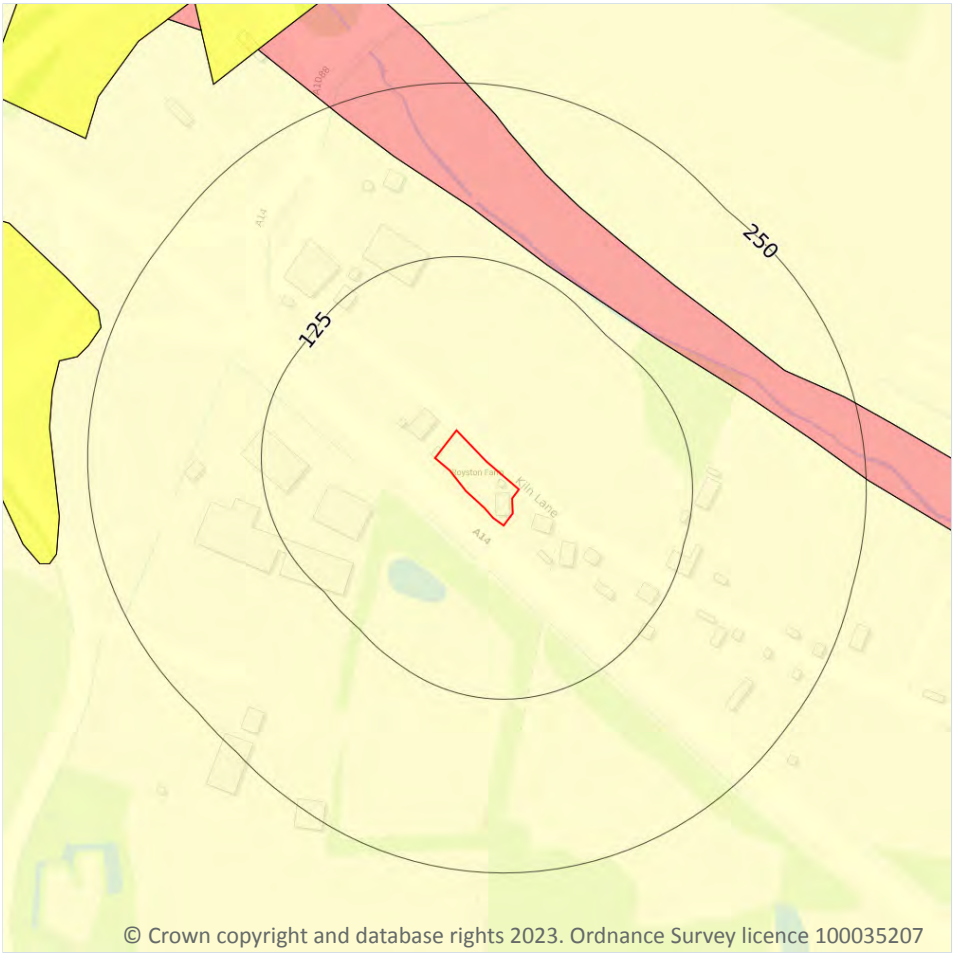
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 89 >**

Location	Hazard rating	Details
On site	**Very low**	**Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m	1

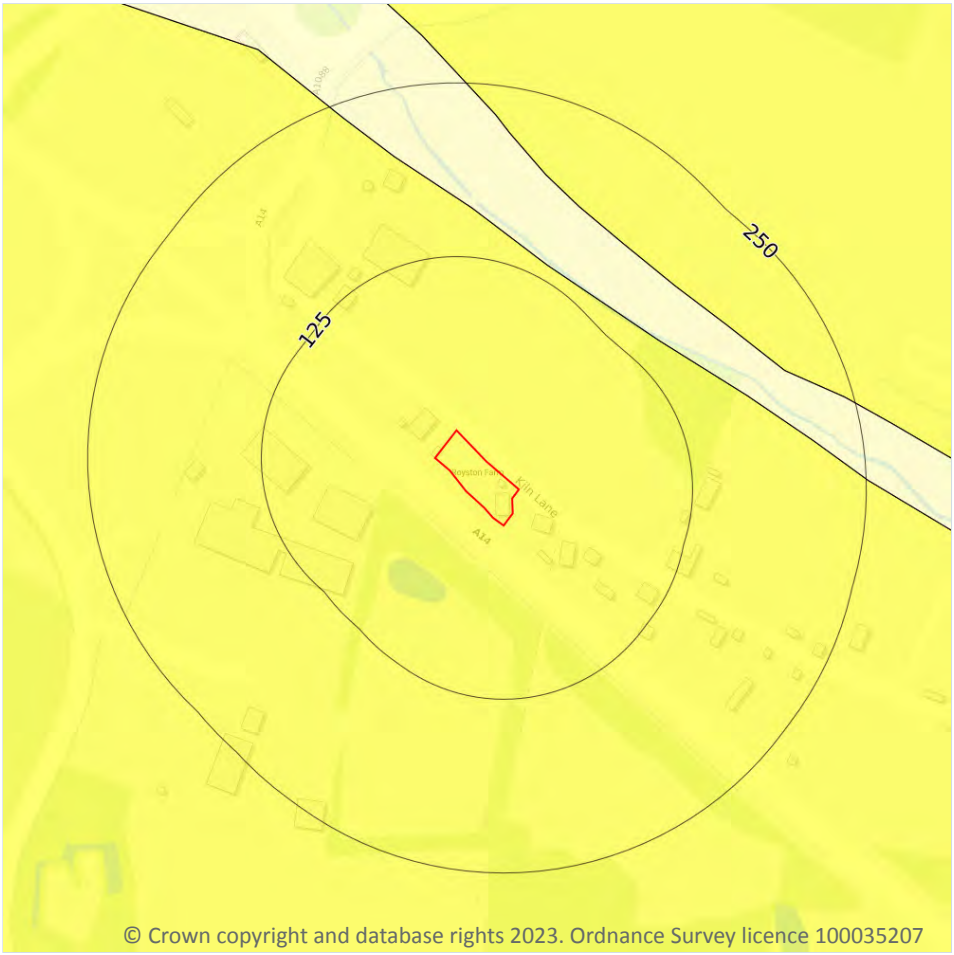
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 90 >**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m	1

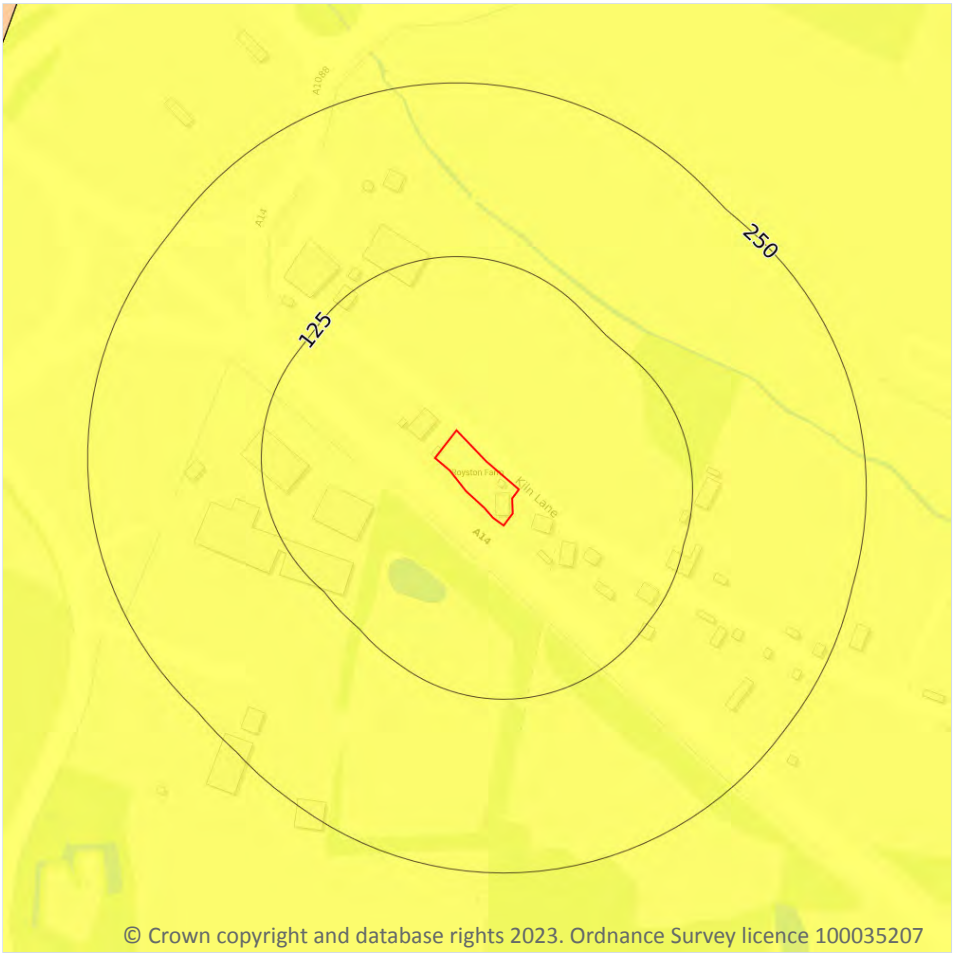
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 91 >**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	1

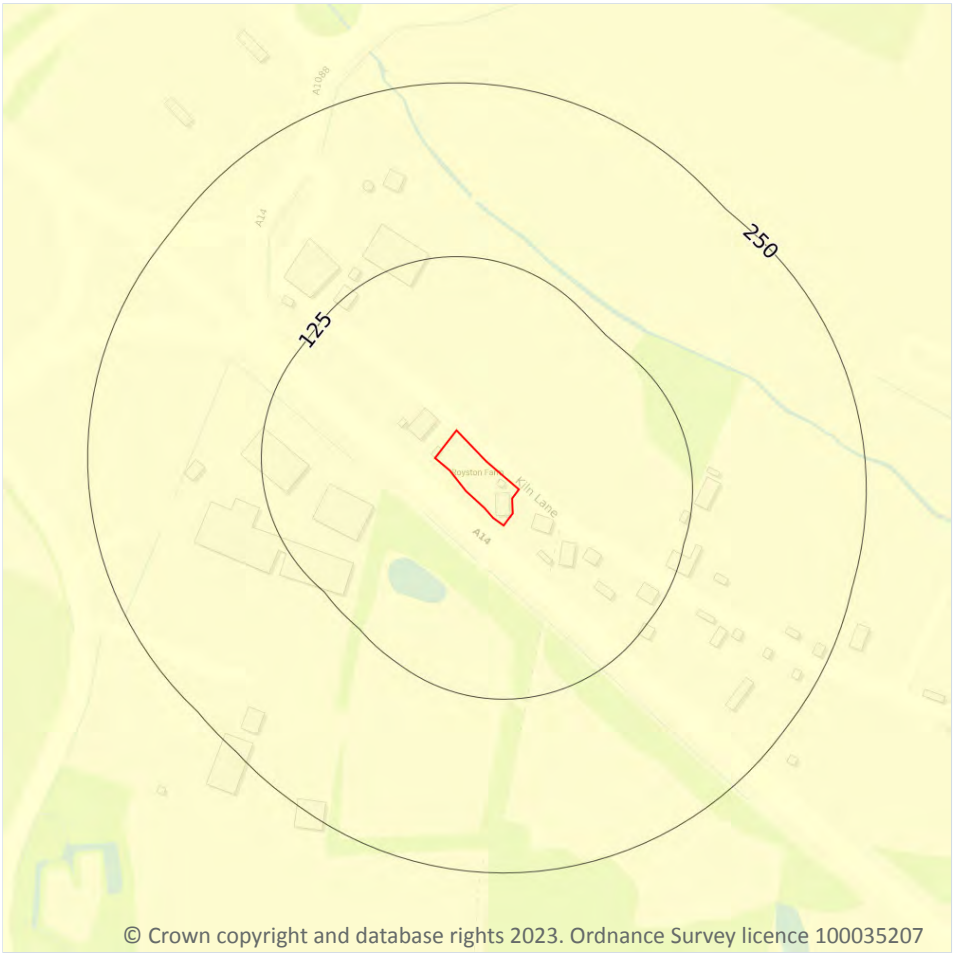
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 92 >**

Location	Hazard rating	Details
On site	**Very low**	**Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	1

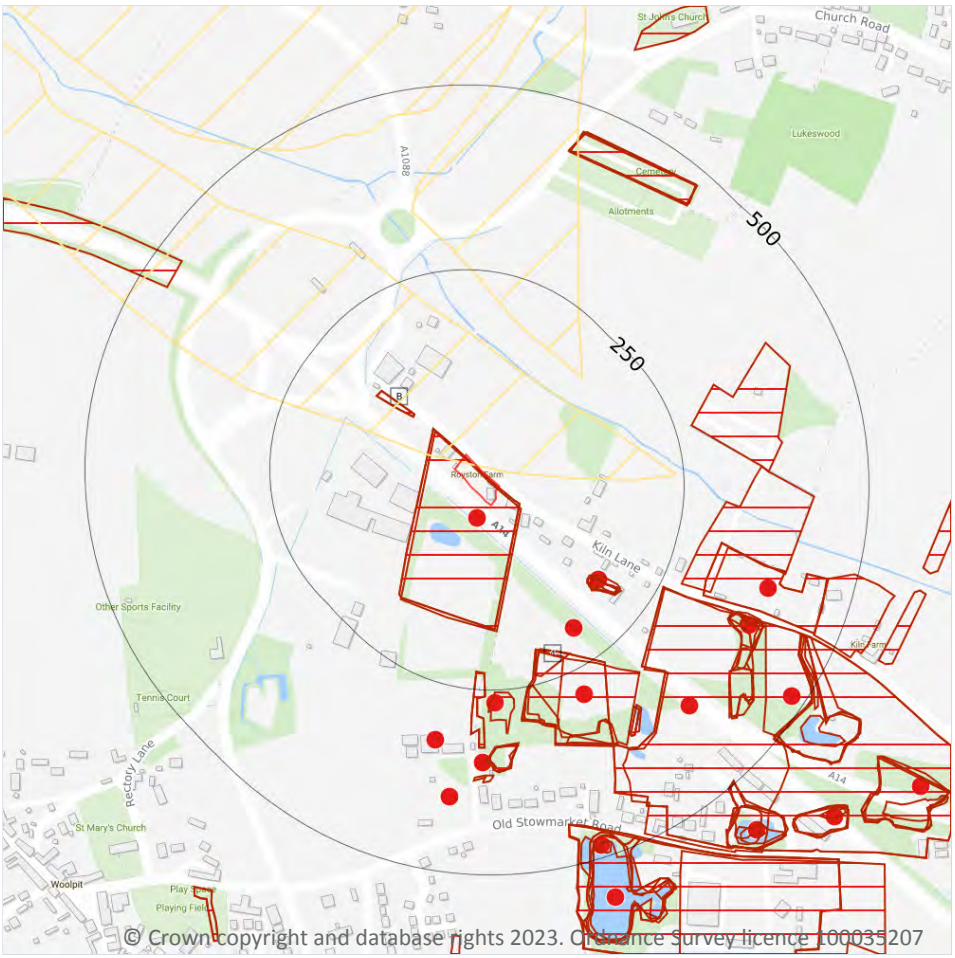
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 93 >**

Location	Hazard rating	Details
On site	**Negligible**	**Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.**

This data is sourced from the British Geological Survey.

18 Mining and ground workings



Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	14

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining and ground workings map on **page 95 >**

ID	Location	Details	Description
A	24m S	Name: Crossway Brick Works Address: Crossways, Elmswell, BURY ST EDMUNDS, Suffolk Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
C	176m SE	Name: Woolpit Works Address: Crossways, Elmswell, BURY ST EDMUNDS, Suffolk Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
3	199m SE	Name: Woolpit Works Address: Crossways, Elmswell, BURY ST EDMUNDS, Suffolk Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
C	201m SE	Name: Woolpit Works Address: Crossways, Elmswell, BURY ST EDMUNDS, Suffolk Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
E	266m S	Name: Crossway Brick Works Address: Crossways, Elmswell, BURY ST EDMUNDS, Suffolk Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
D	285m SE	Name: Crossway Brick Works Address: Crossways, Elmswell, BURY ST EDMUNDS, Suffolk Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

ID	Location	Details	Description
7	325m S	Name: Crossway Brick Works Address: Woolpit, BURY ST EDMUNDS, Suffolk Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
I	347m S	Name: Crossway Brick Works Address: Crossways, Elmswell, BURY ST EDMUNDS, Suffolk Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
G	381m SE	Name: Woolpit Works Address: Woolpit, BURY ST EDMUNDS, Suffolk Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
K	383m SE	Name: Woolpit Works Address: Crossways, Elmswell, BURY ST EDMUNDS, Suffolk Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
H	387m E	Name: Kiln Lane Brick Works Address: Crossways, Elmswell, BURY ST EDMUNDS, Suffolk Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
9	398m S	Name: Crossway Brick Works Address: Crossways, Elmswell, BURY ST EDMUNDS, Suffolk Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

ID	Location	Details	Description
N	480m SE	Name: Woolpit Works Address: Crossways, Elmswell, BURY ST EDMUNDS, Suffolk Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
P	483m S	Name: Woolpit Works Address: Woolpit, BURY ST EDMUNDS, Suffolk Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	**17**

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on **page 95 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Brick Works**	**1905**	**1:10560**
A	**On site**	**Brick Works**	**1883**	**1:10560**
A	**On site**	**Brick Works**	**1905**	**1:10560**
B	88m NW	Pond	1950	1:10560
B	88m NW	Pond	1883	1:10560
C	163m SE	Ponds	1950	1:10560
C	164m SE	Ponds	1905	1:10560
C	170m SE	Ponds	1950	1:10560
C	170m SE	Ponds	1883	1:10560
D	204m S	Unspecified Pit	1905	1:10560
D	204m S	Unspecified Pit	1905	1:10560
D	205m S	Unspecified Pit	1950	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
4	205m S	Unspecified Pit	1950	1:10560
D	208m S	Old Clay Pits	1883	1:10560
E	226m S	Unspecified Ground Workings	1905	1:10560
E	226m S	Unspecified Ground Workings	1905	1:10560
D	248m S	Unspecified Pit	1950	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	0

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	4

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining and ground workings map on **page 95 >**

ID	Location	Name	Commodity	Class	Likelihood
1	**On site**	**Not available**	**Chalk**	**A**	**Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.**
2	180m NE	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
10	456m N	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	842m W	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	0

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m	0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.

20 Radon

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Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

20.1 Radon

Records on site	1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on **page 105 >**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Less than 1%**	**None**

This data is sourced from the British Geological Survey and UK Health Security Agency.

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m **7**

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km^2. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km^2; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
21m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
48m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
48m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m **0**

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km^2.

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m	0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	0

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m	0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m	0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m	0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference ↗.

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APPENDIX 4 - Groundsure Historical Maps

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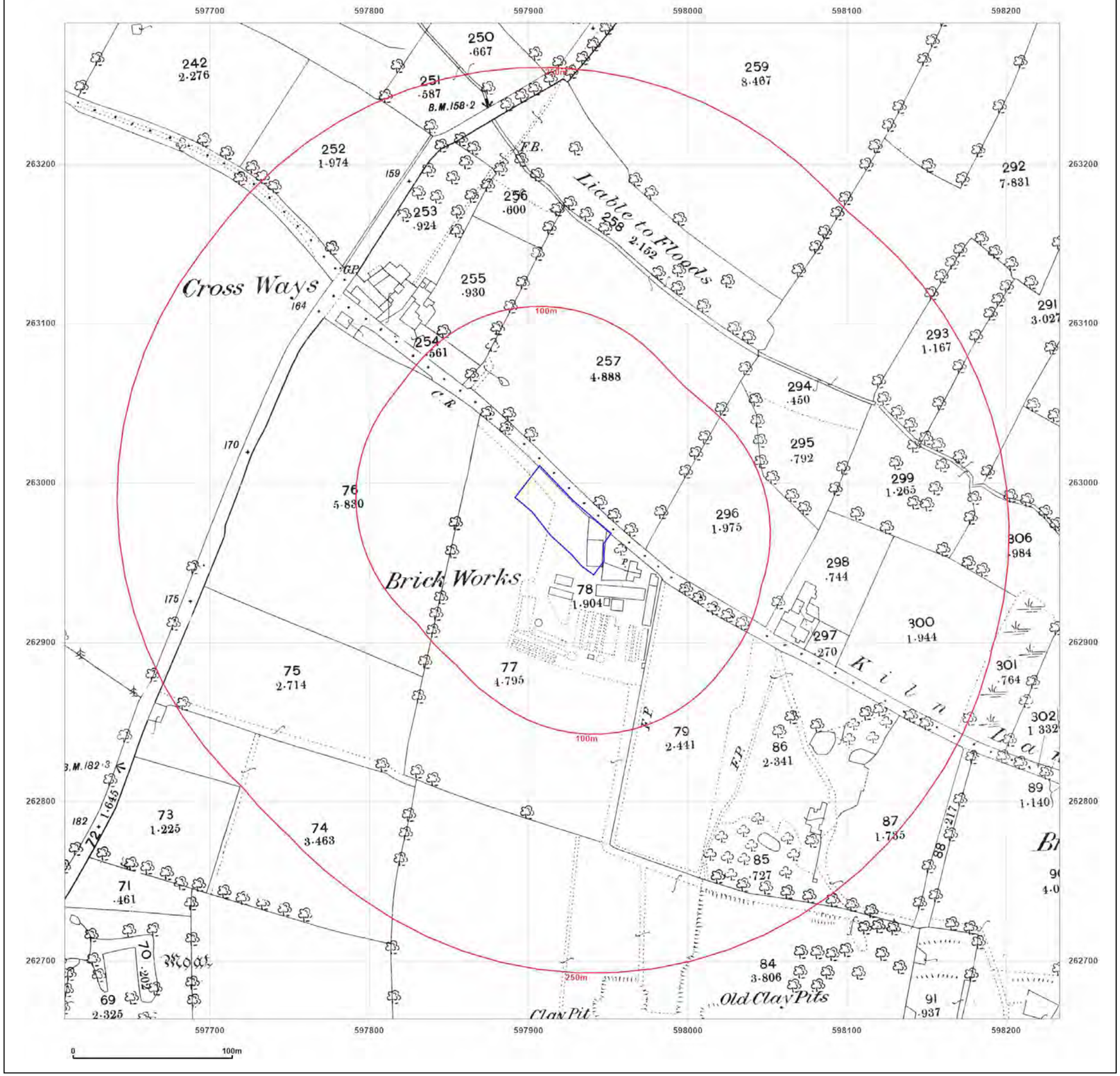

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ELMSWELL, IP30 9QR

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Report Ref: HMD-8K7-4XF-4H9-HYD
Grid Ref: 597921, 262976

Map Name: County Series

Map date: **1883**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1883
Revised 1883
Edition N/A
Copyright N/A
Levelled N/A

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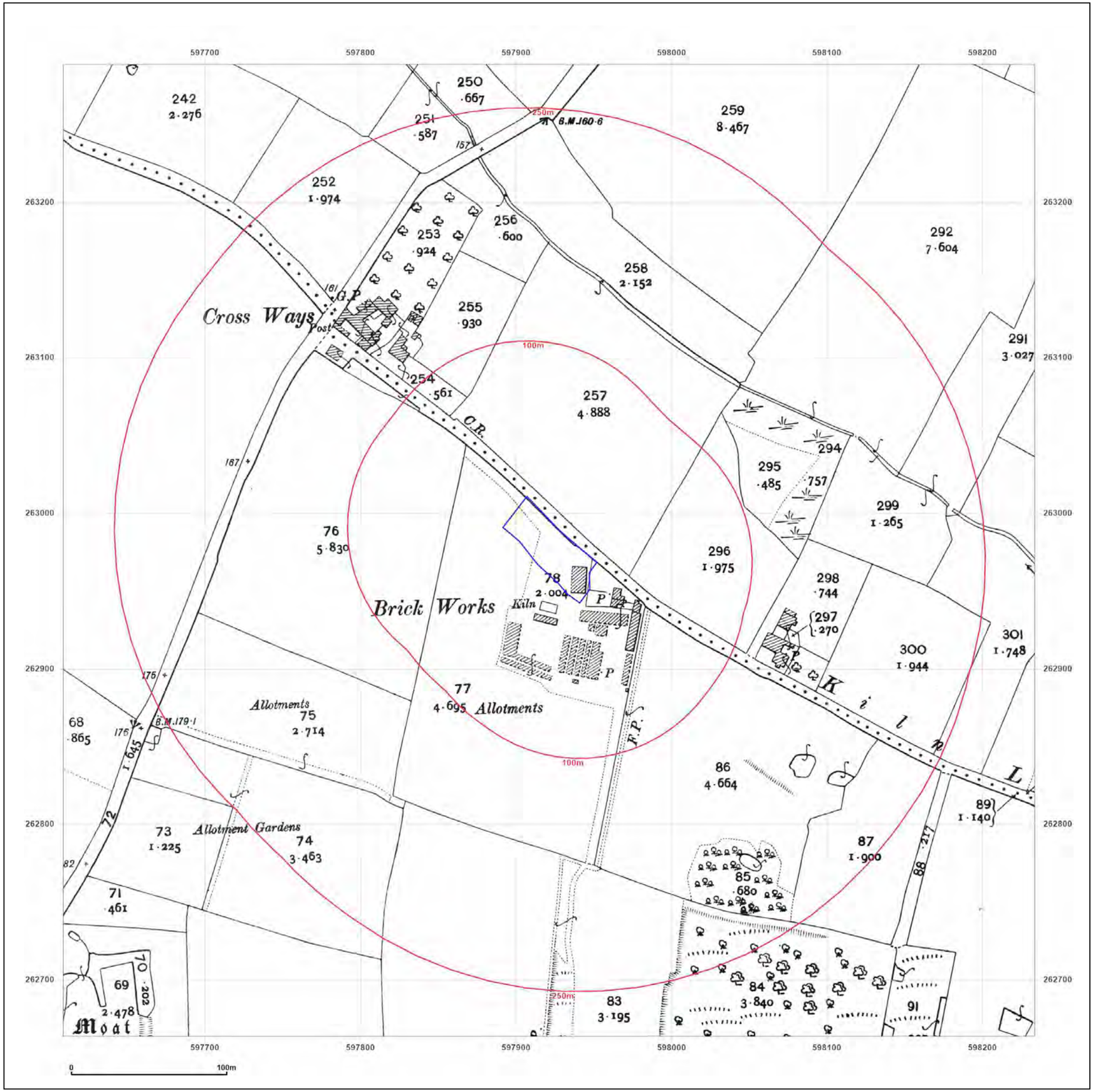

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Site Details:

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ELMSWELL, IP30 9QR

Client Ref: OES23-001LOM
Report Ref: HMD-8K7-4XF-4H9-HYD
Grid Ref: 597921, 262976

Map Name: County Series

Map date: **1904**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1883
Revised 1903
Edition 1904
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Client Ref: OES23-001LOM
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Grid Ref: 597921, 262976

Map Name: National Grid

Map date: **1974-1979**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1979
Levelled 1971

Surveyed 1973
Revised 1973
Edition N/A
Copyright 1974
Levelled 1971

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1979
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Revised 1973
Edition N/A
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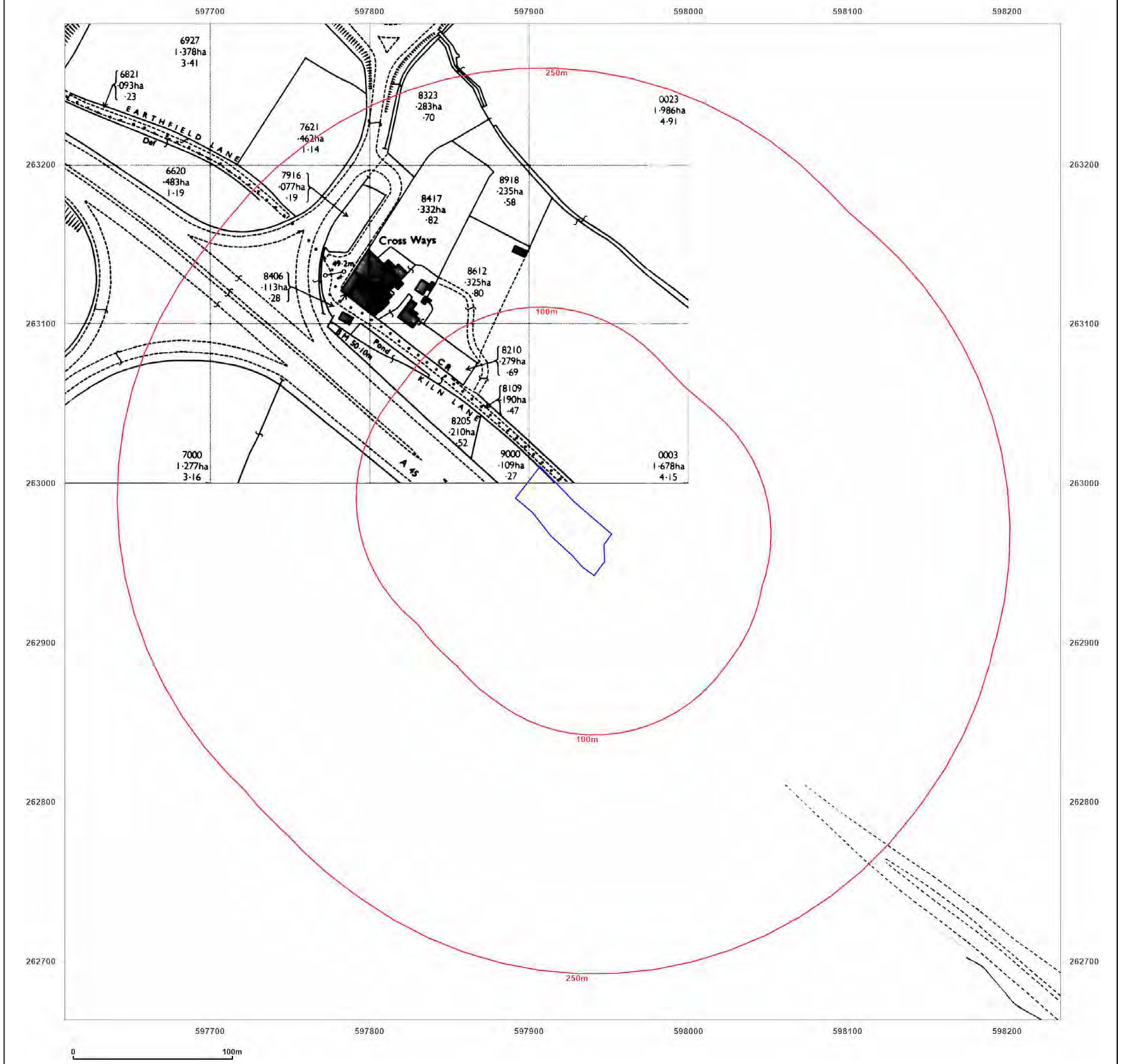

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Map Name: National Grid

Map date: **1978-1982**

Scale: 1:2,500

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Revised N/A
Edition N/A
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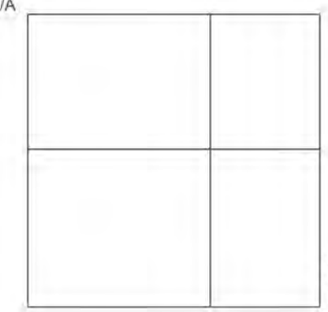

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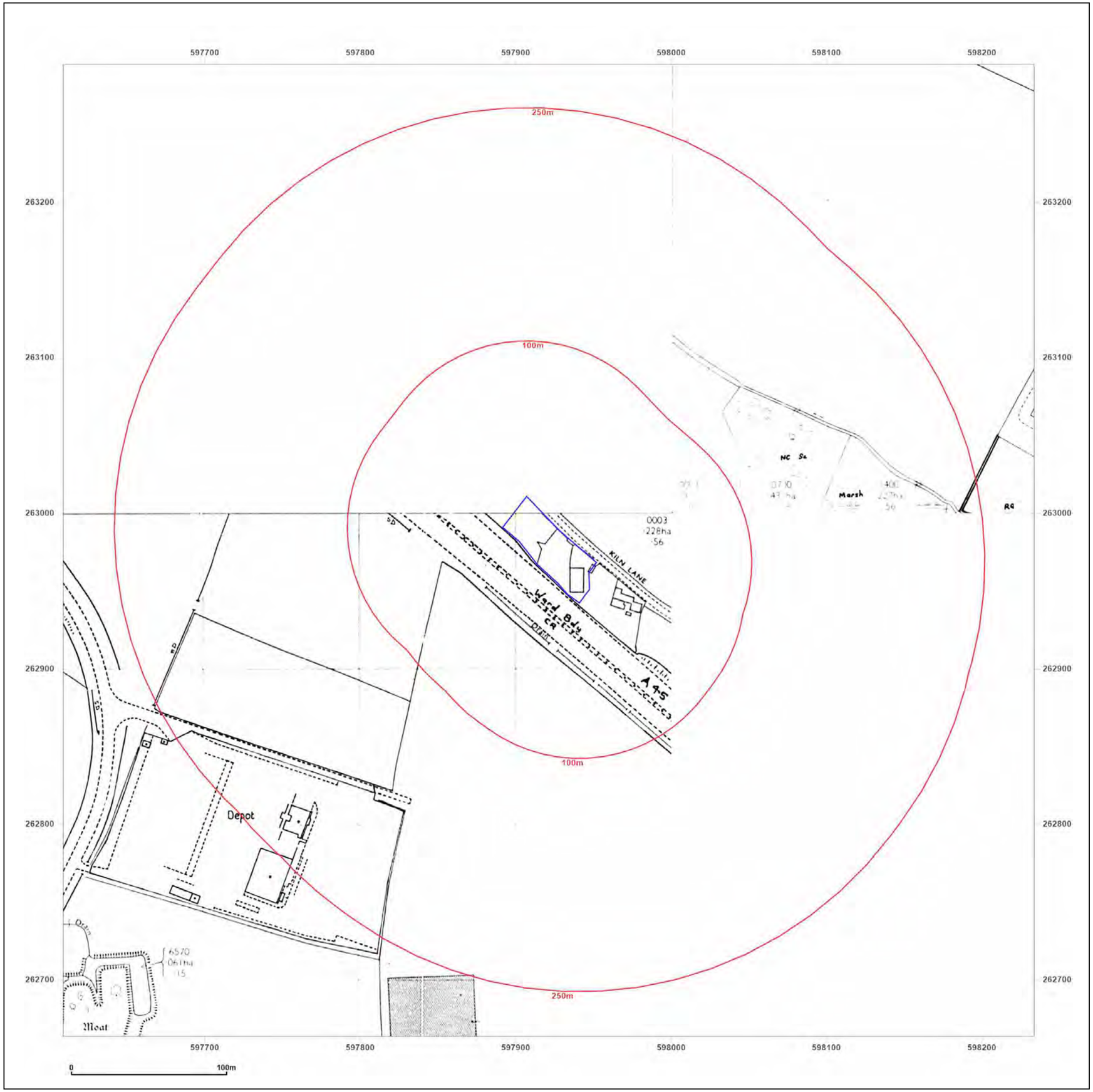

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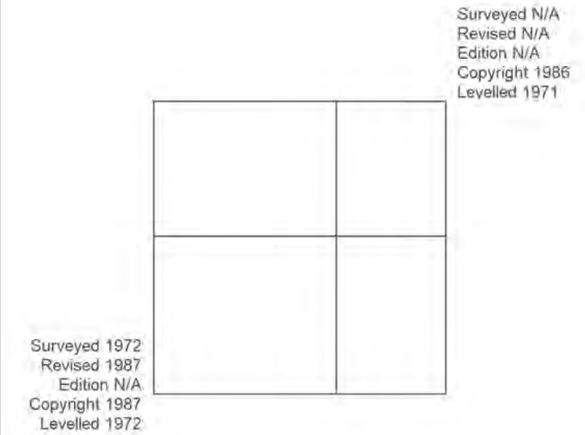

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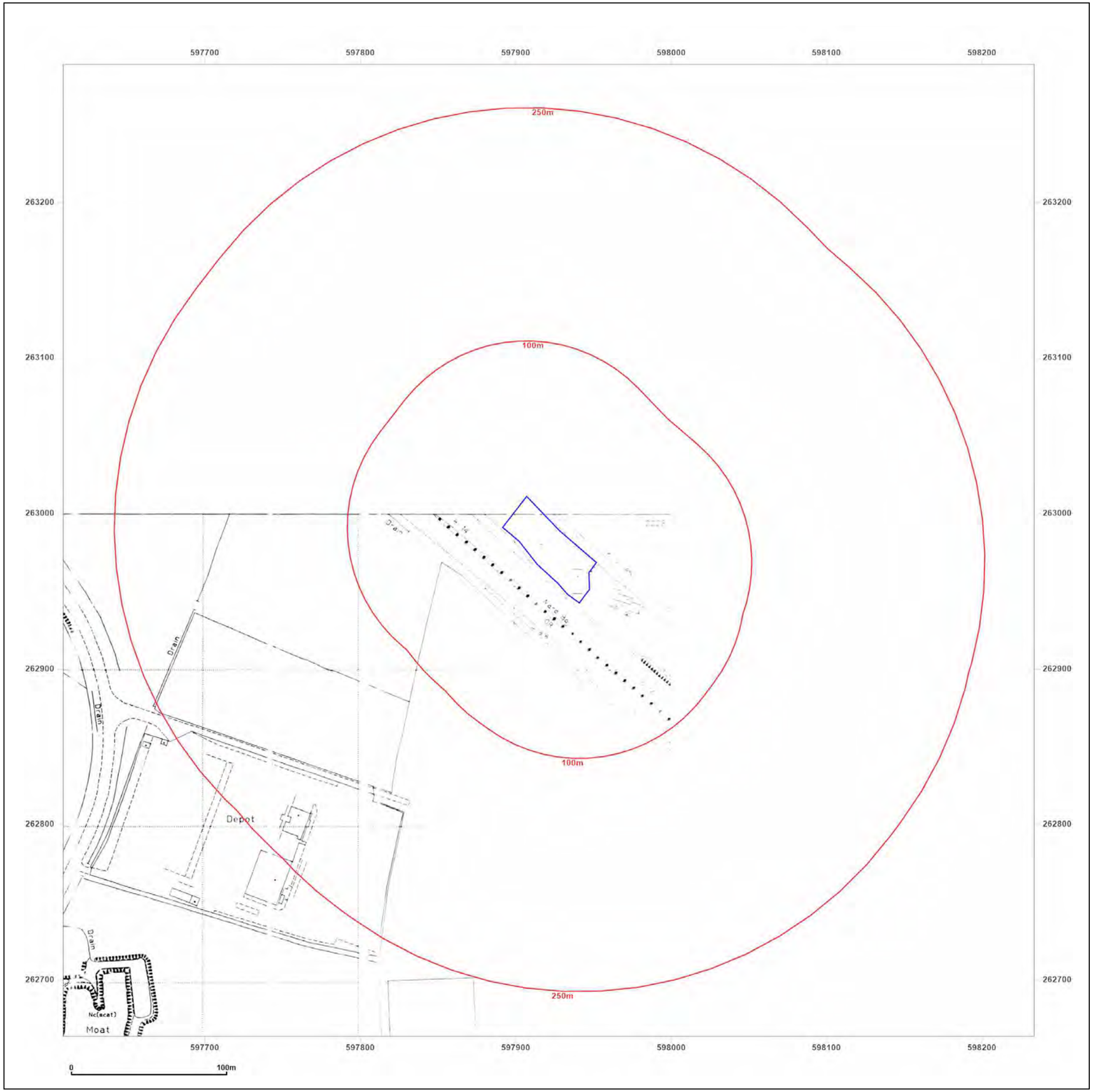

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ELMSWELL, IP30 9QR

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Map Name: National Grid
Map date: **1995**
Scale: 1:2,500
Printed at: 1:2,500

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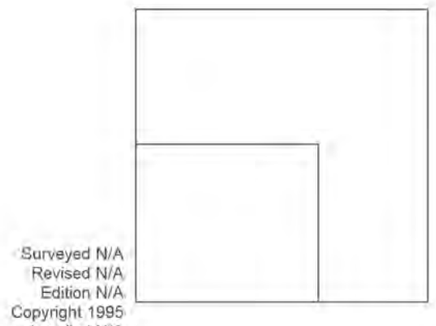

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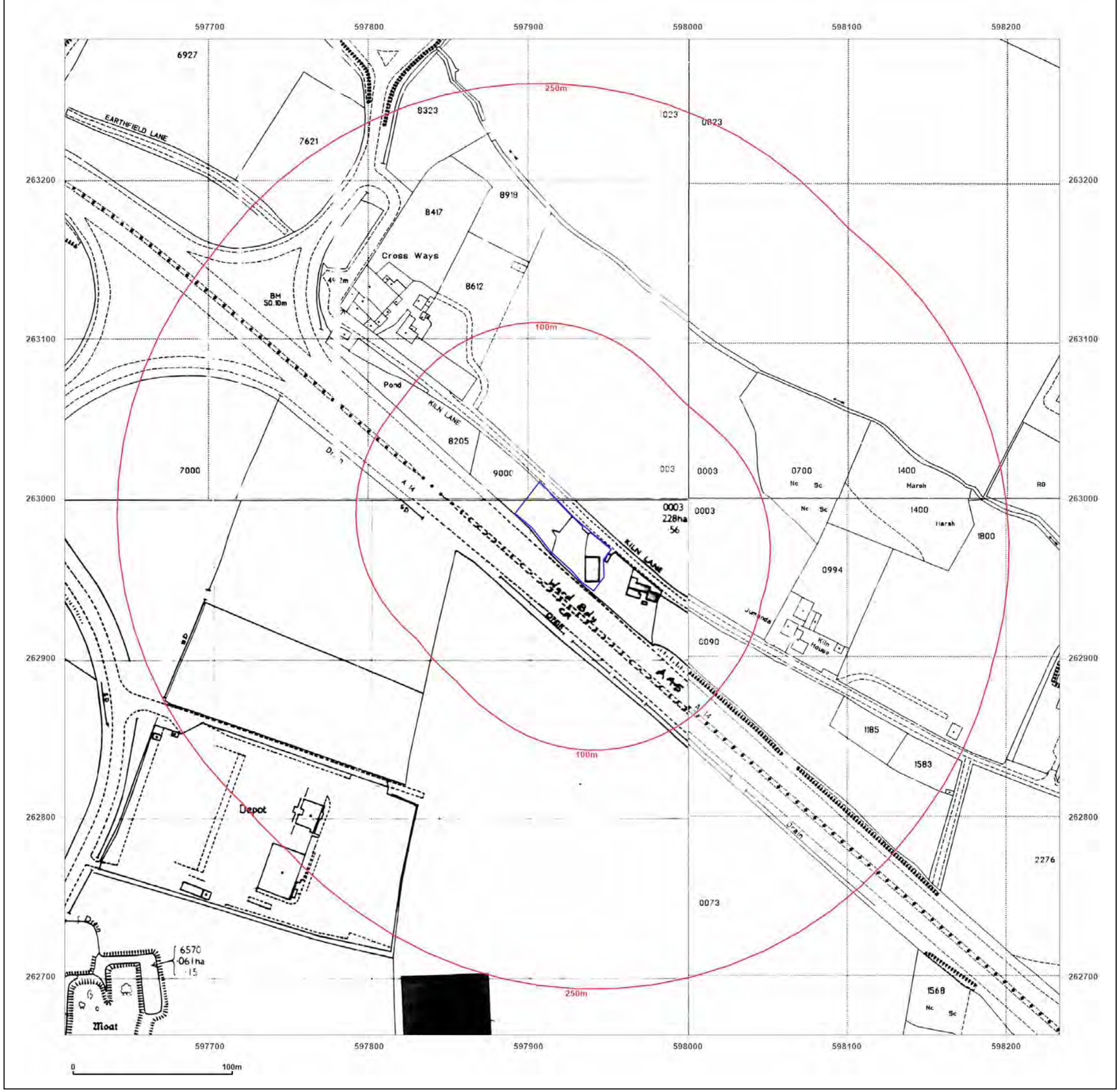

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Grid Ref: 597921, 262976

Map Name: National Grid

Map date: **1991-1995**

Scale: 1:2,500

Printed at: 1:2,500

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Edition N/A
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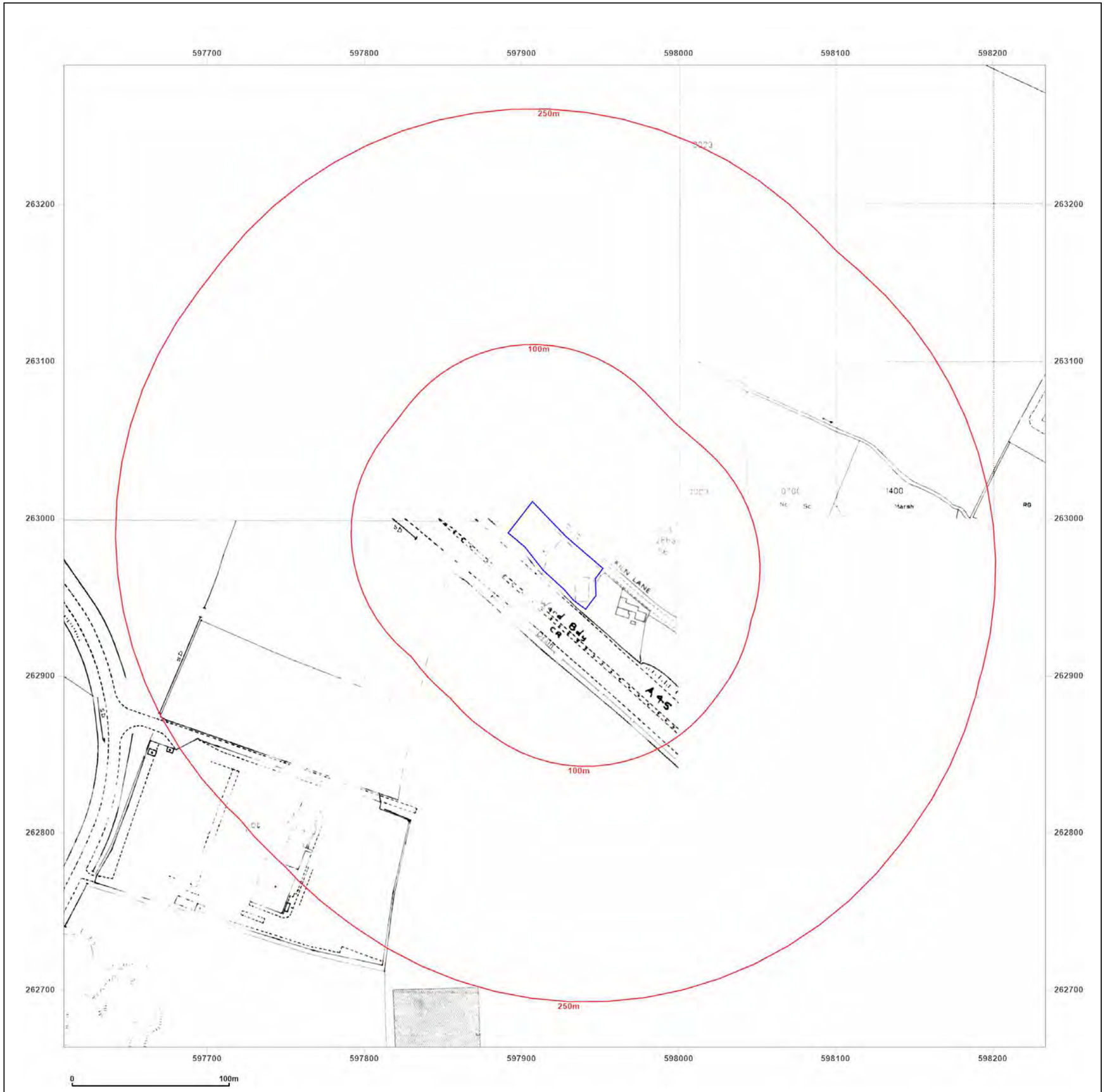

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Grid Ref: 597921, 262976

Map Name: National Grid

Map date: **1991-1995**

Scale: 1:2,500

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Edition N/A
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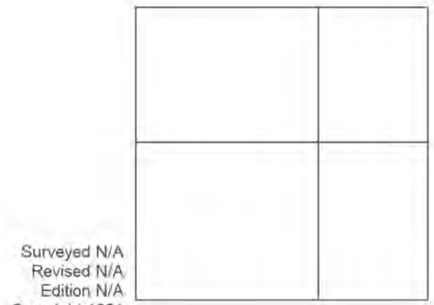

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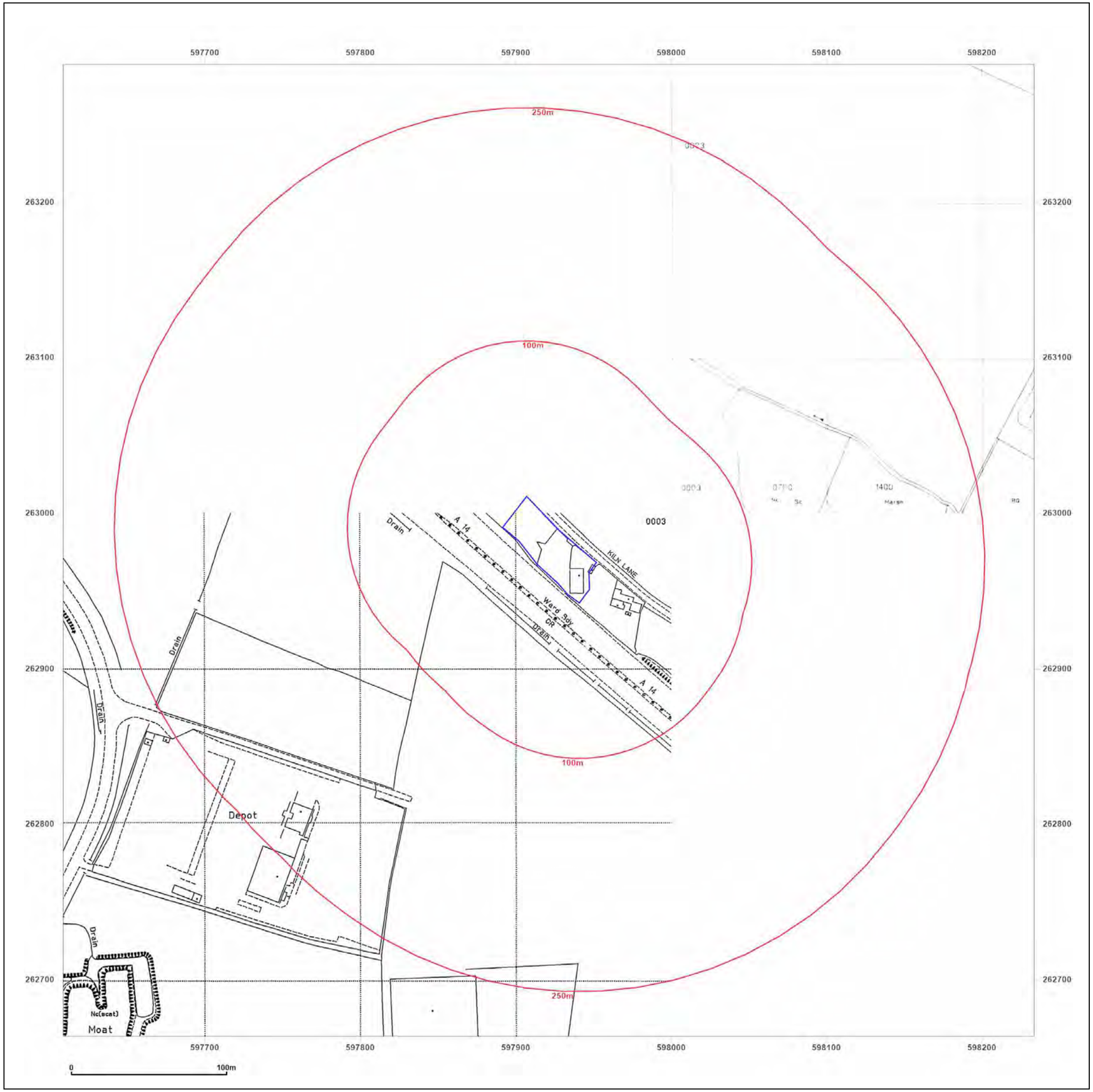

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Grid Ref: 597921, 262976

Map Name: National Grid

Map date: **1995**

Scale: 1:2,500

Printed at: 1:2,500

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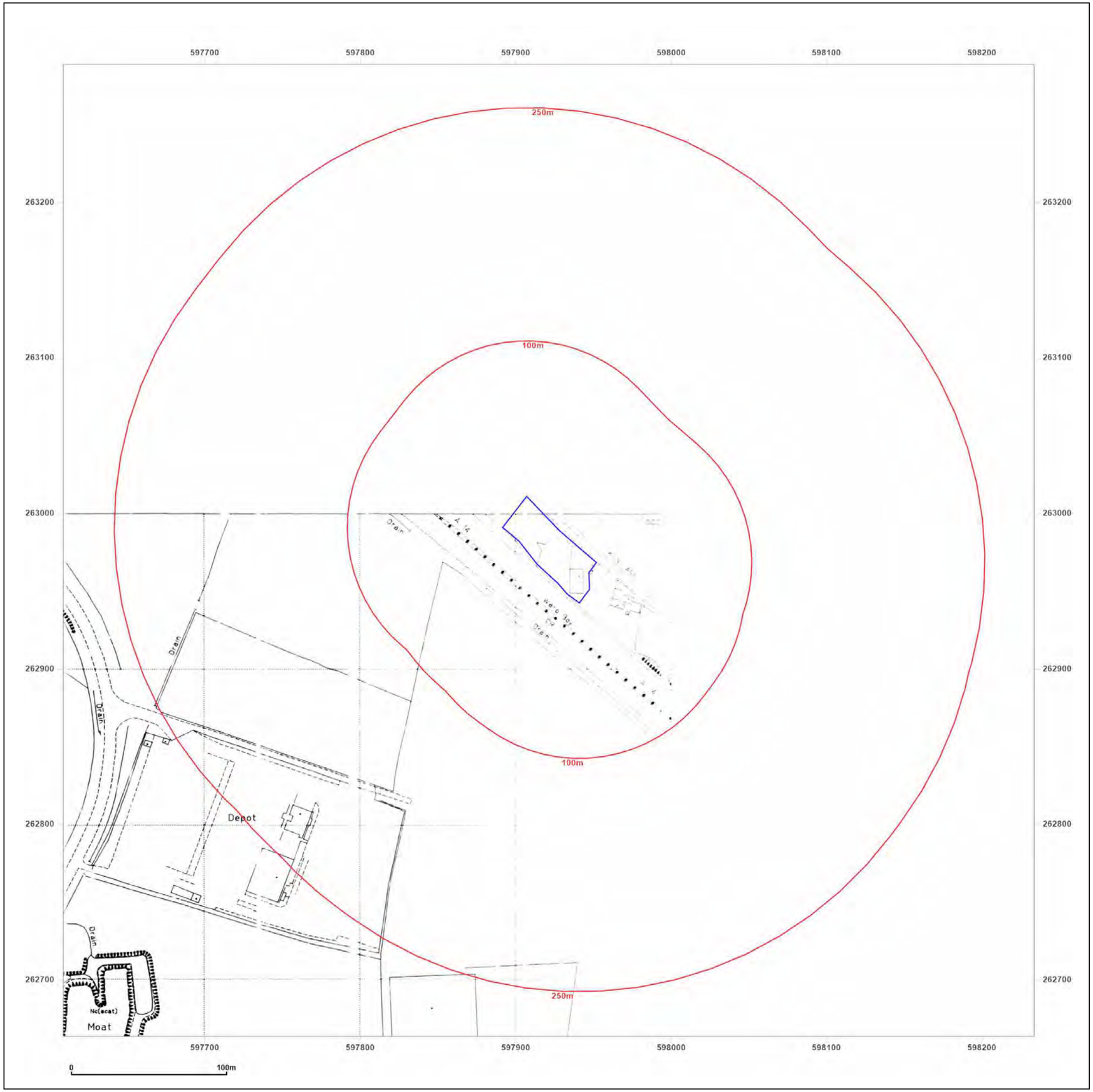

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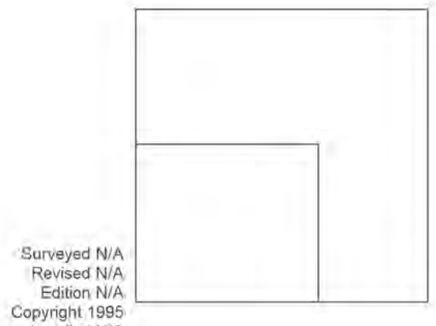

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Client Ref: OES23-001LOM
Report Ref: HMD-8K7-4XF-4H9-HYD
Grid Ref: 597921, 262976

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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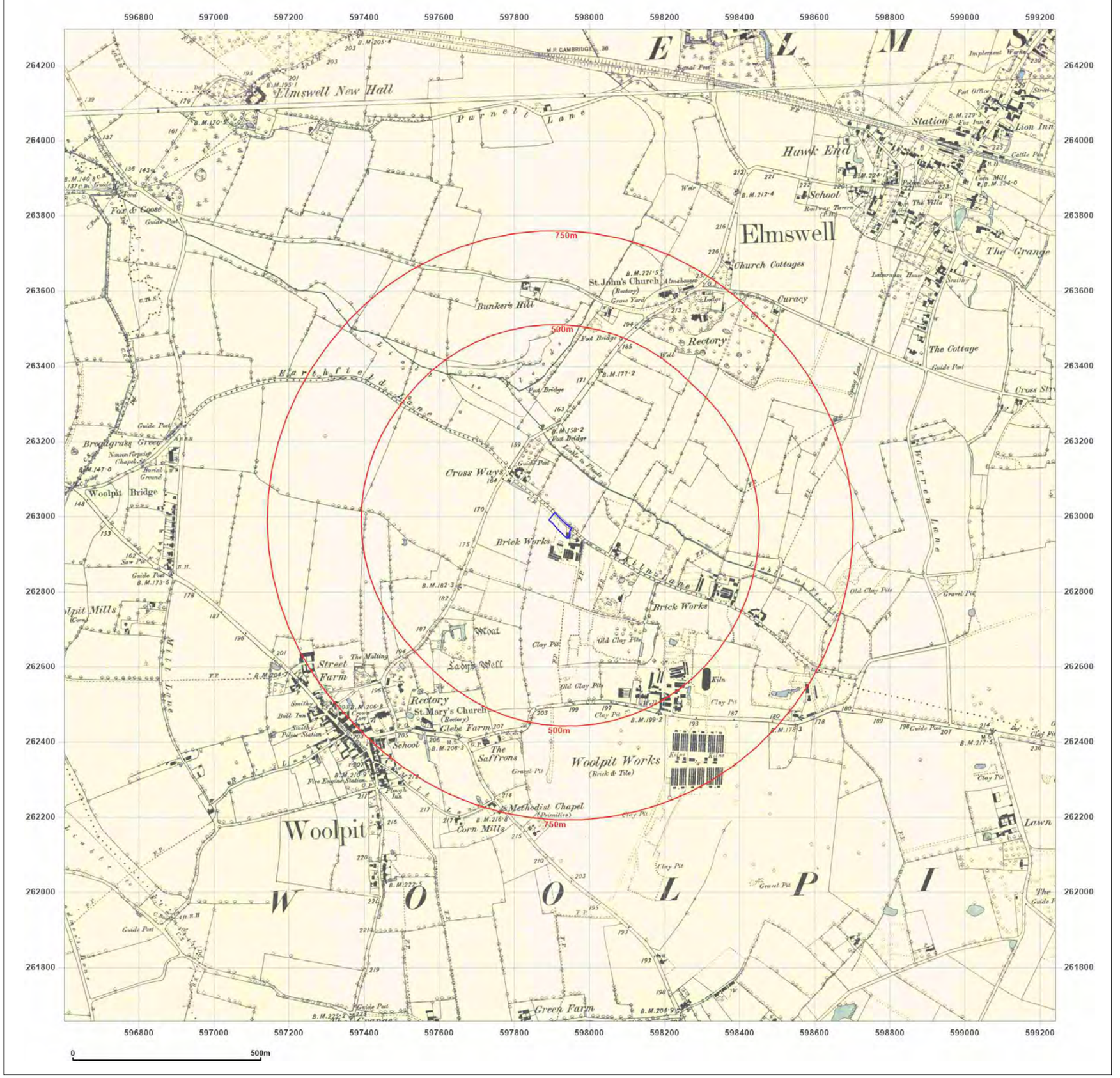

Groundsure INSIGHTS

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Client Ref: OES23-001LOM
Report Ref: HMD-8K7-4XF-4H9-HYD
Grid Ref: 597921, 262976

Map Name: County Series

Map date: **1883-1884**

Scale: 1:10,560

Printed at: 1:10,560

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Edition 1884
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Surveyed 1883
Revised 1883
Edition N/A
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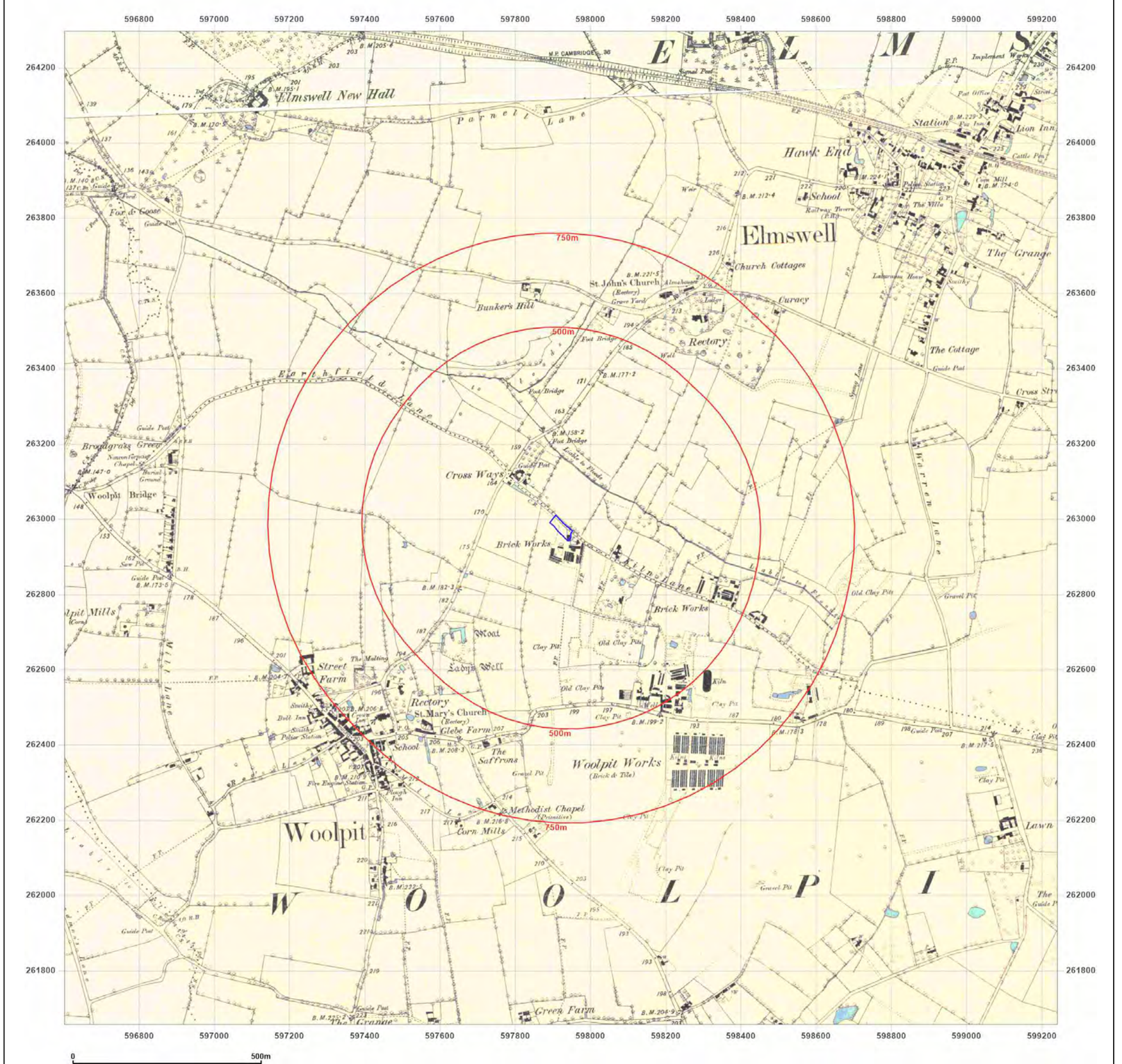

Groundsure INSIGHTS

Site Details:

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ELMSWELL, IP30 9QR

Client Ref: OES23-001LOM
Report Ref: HMD-8K7-4XF-4H9-HYD
Grid Ref: 597921, 262976

Map Name: County Series

Map date: **1883-1888**

Scale: 1:10,560

Printed at: 1:10,560

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Revised 1883
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Revised N/A
Edition N/A
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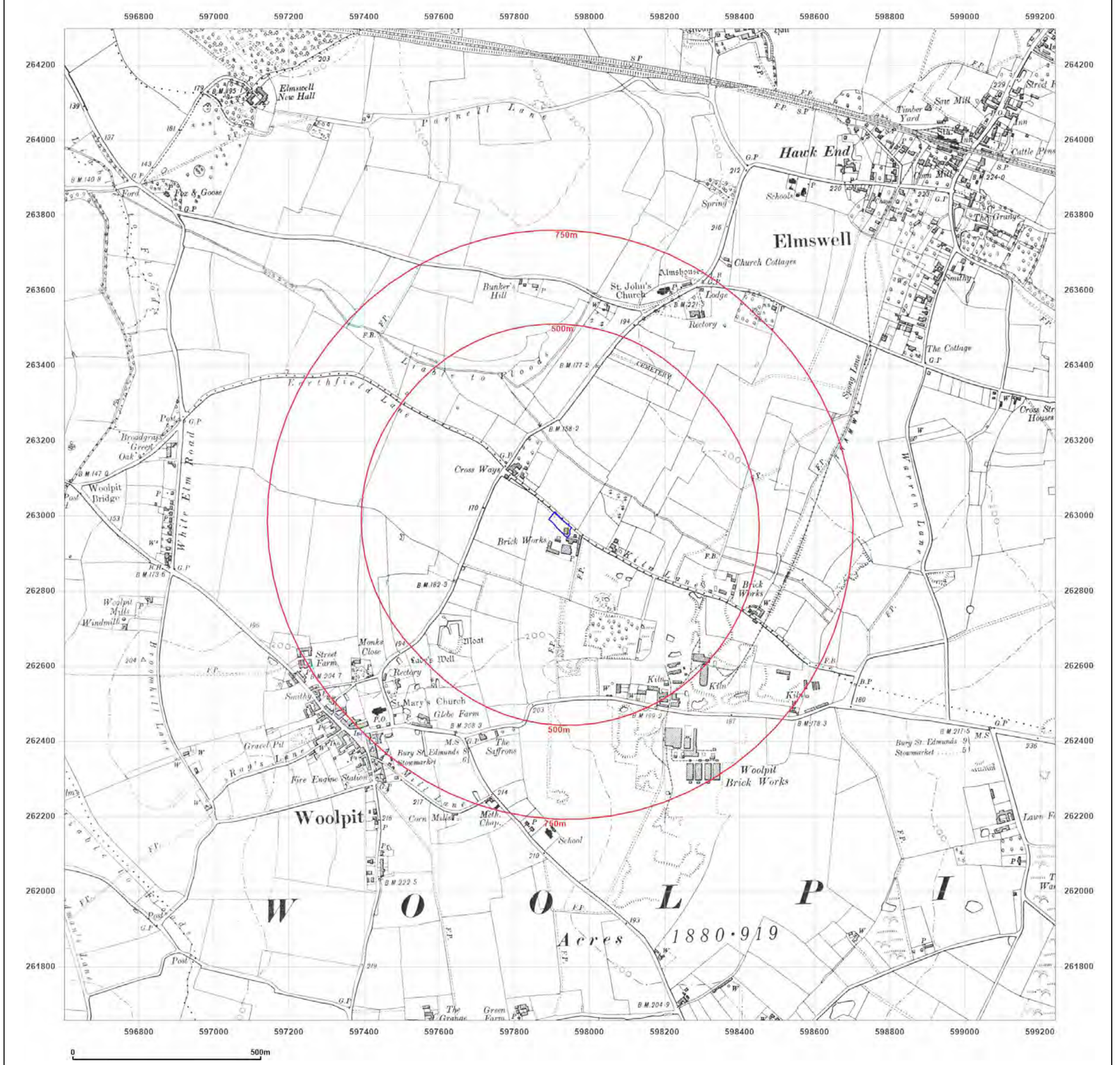

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Site Details:

ROYSTON FARM, KILN LANE,
ELMSWELL, IP30 9QR

Client Ref: OES23-001LOM
Report Ref: HMD-8K7-4XF-4H9-HYD
Grid Ref: 597921, 262976

Map Name: County Series

Map date: **1903**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1882
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1883
Revised 1903
Edition N/A
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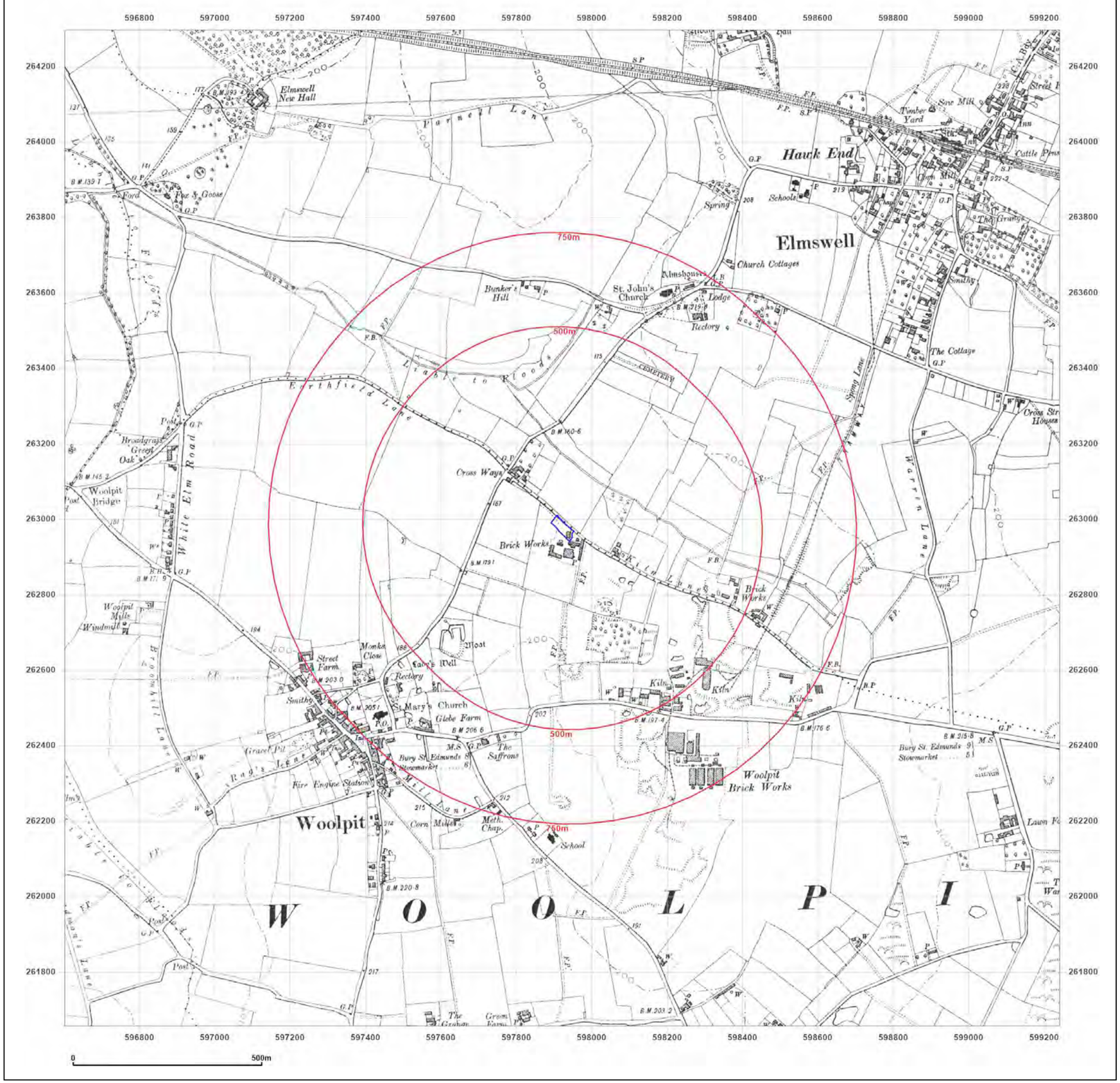

Groundsure INSIGHTS

Site Details:

ROYSTON FARM, KILN LANE,
ELMSWELL, IP30 9QR

Client Ref: OES23-001LOM
Report Ref: HMD-8K7-4XF-4H9-HYD
Grid Ref: 597921, 262976

Map Name: County Series

Map date: **1905**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1882
Revised 1905
Edition 1905
Copyright N/A
Levelled N/A

Surveyed 1883
Revised 1905
Edition 1905
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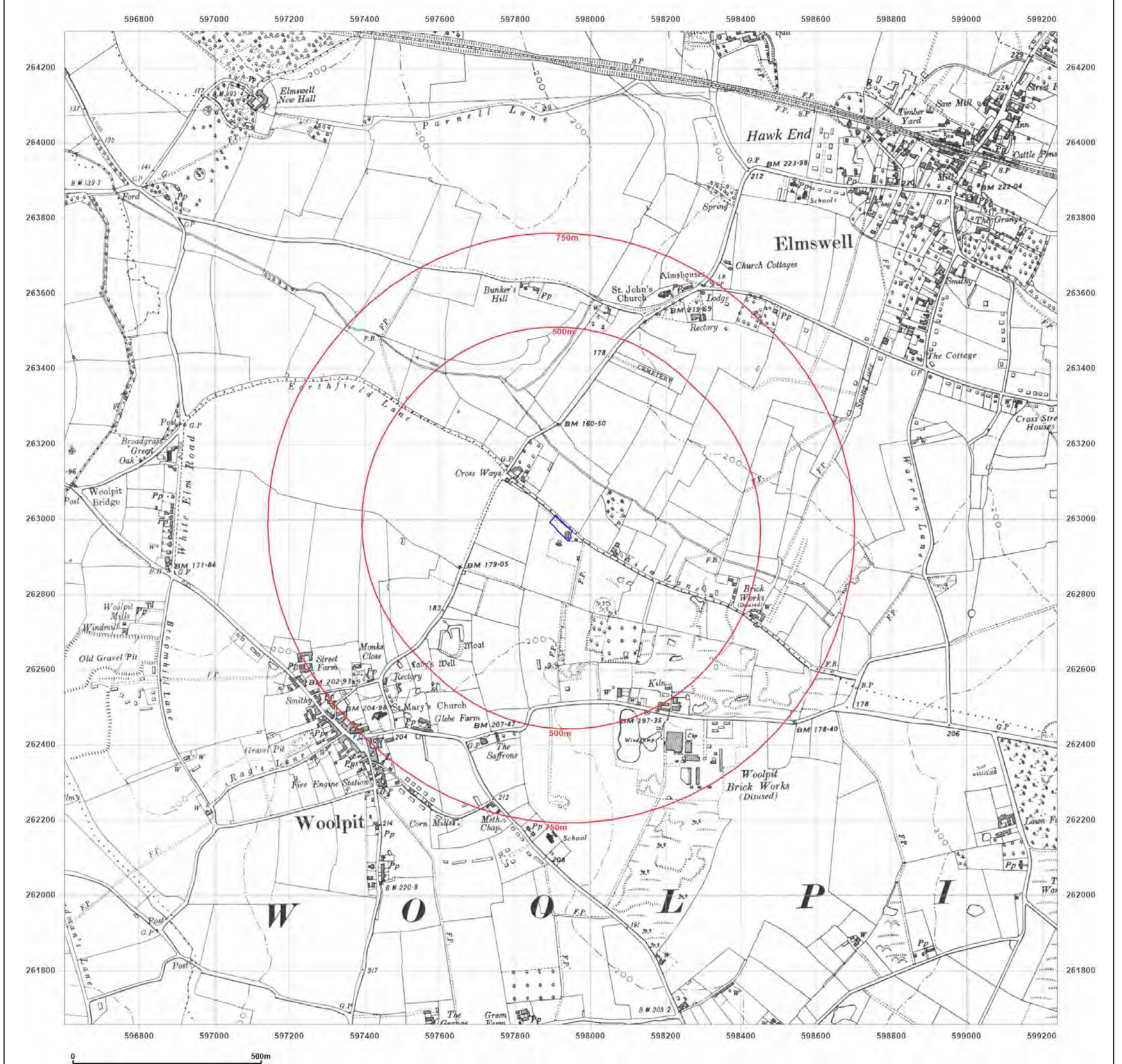

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Site Details:

ROYSTON FARM, KILN LANE,
ELMSWELL, IP30 9QR

Client Ref: OES23-001LOM
Report Ref: HMD-8K7-4XF-4H9-HYD
Grid Ref: 597921, 262976

Map Name: County Series

Map date: **1950**

Scale: 1:10,560

Printed at: 1:10,560

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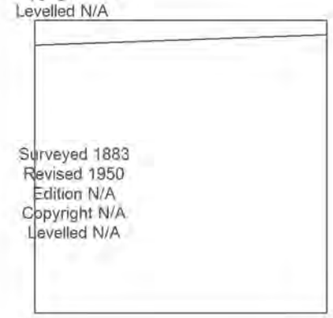
Surveyed 1882
Revised 1950
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1883
Revised 1950
Edition N/A
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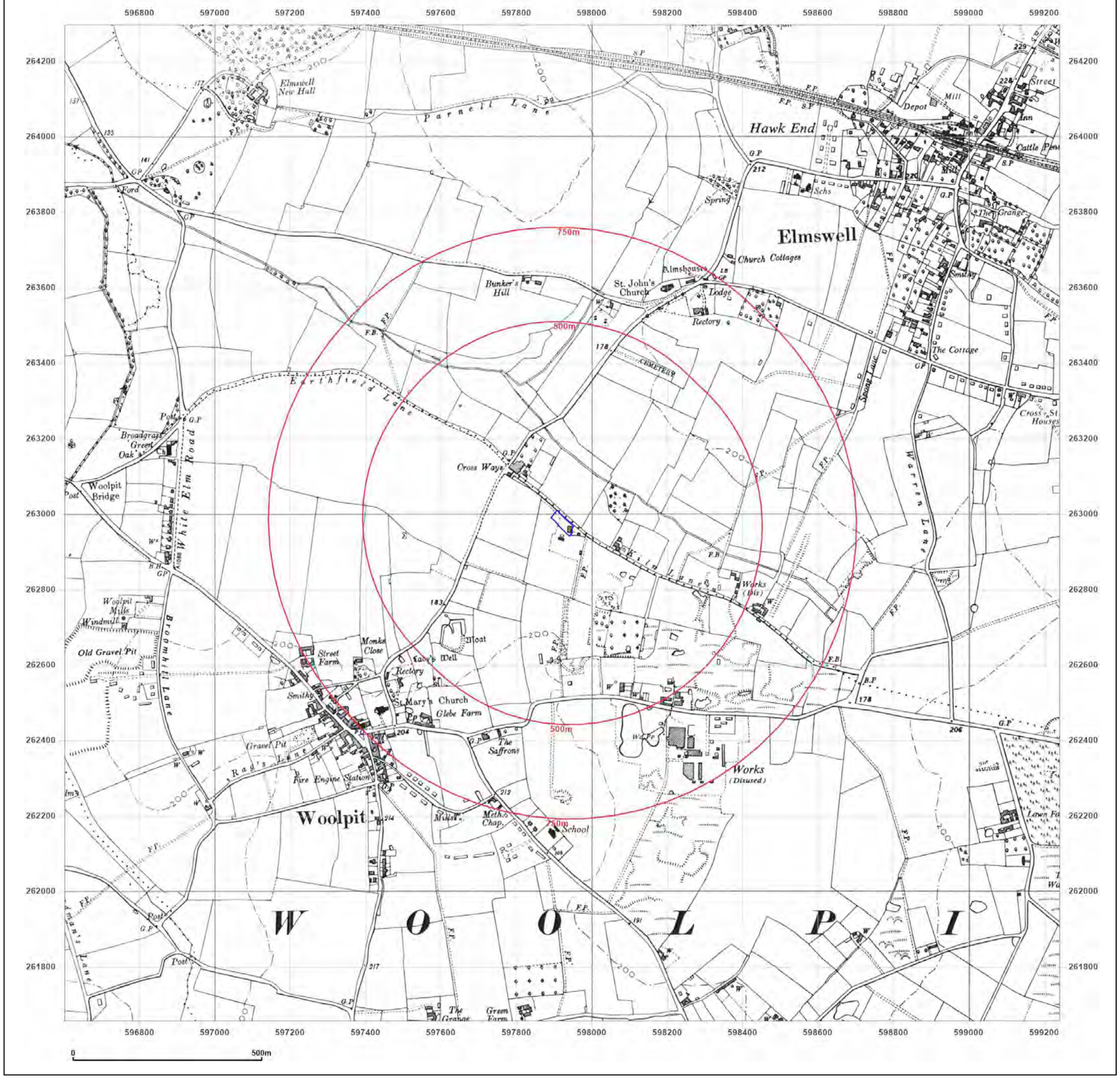

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Site Details:

ROYSTON FARM, KILN LANE,
ELMSWELL, IP30 9QR

Client Ref: OES23-001LOM
Report Ref: HMD-8K7-4XF-4H9-HYD
Grid Ref: 597921, 262976

Map Name: Provisional

Map date: **1958**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed N/A
Revised 1957
Edition N/A
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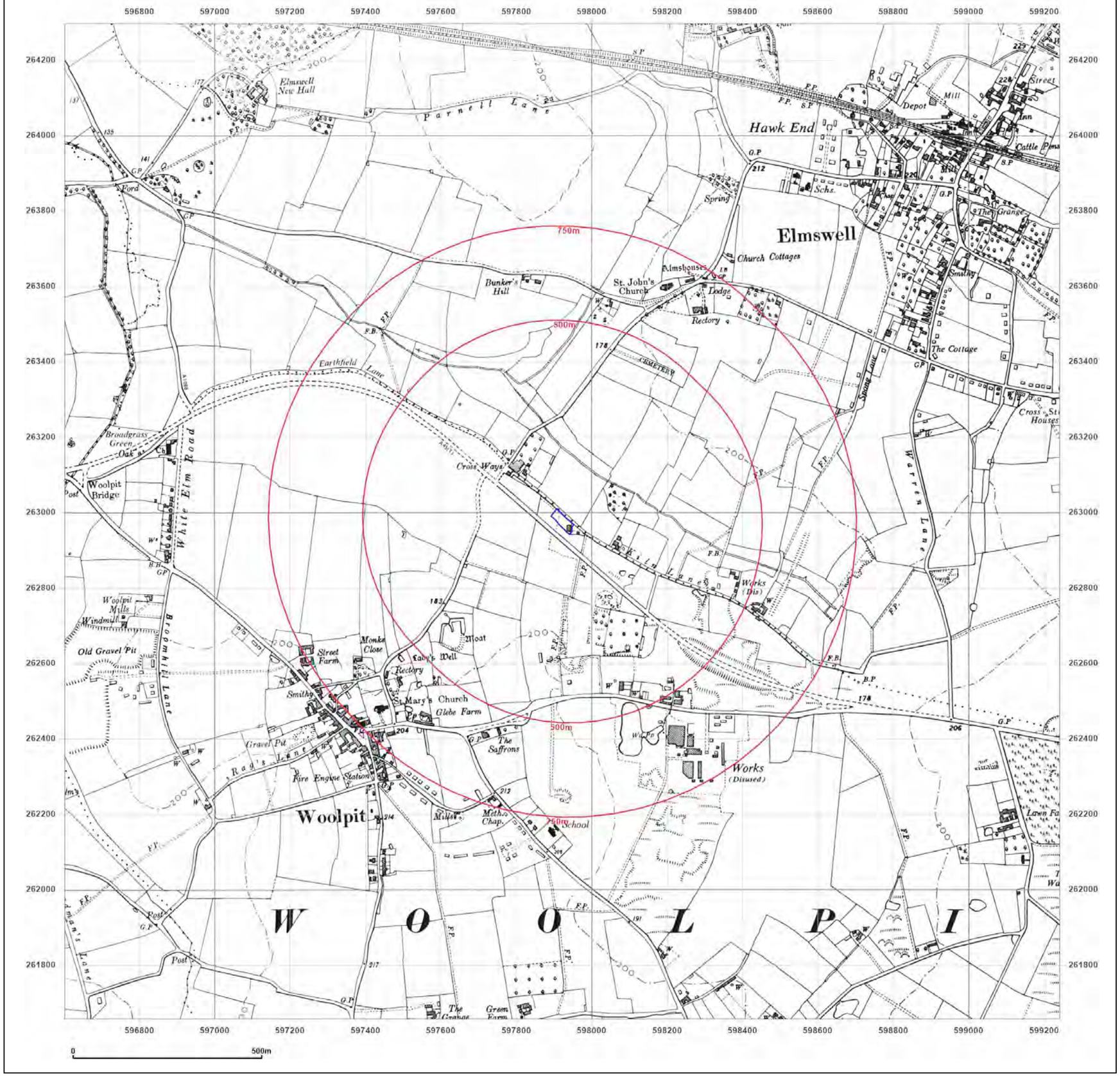

Site Details:

ROYSTON FARM, KILN LANE,
ELMSWELL, IP30 9QR

Client Ref: OES23-001LOM
Report Ref: HMD-8K7-4XF-4H9-HYD
Grid Ref: 597921, 262976

Map Name: Provisional

Map date: **1973**

Scale: 1:10,560

Printed at: 1:10,560

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Revised 1973
Edition N/A
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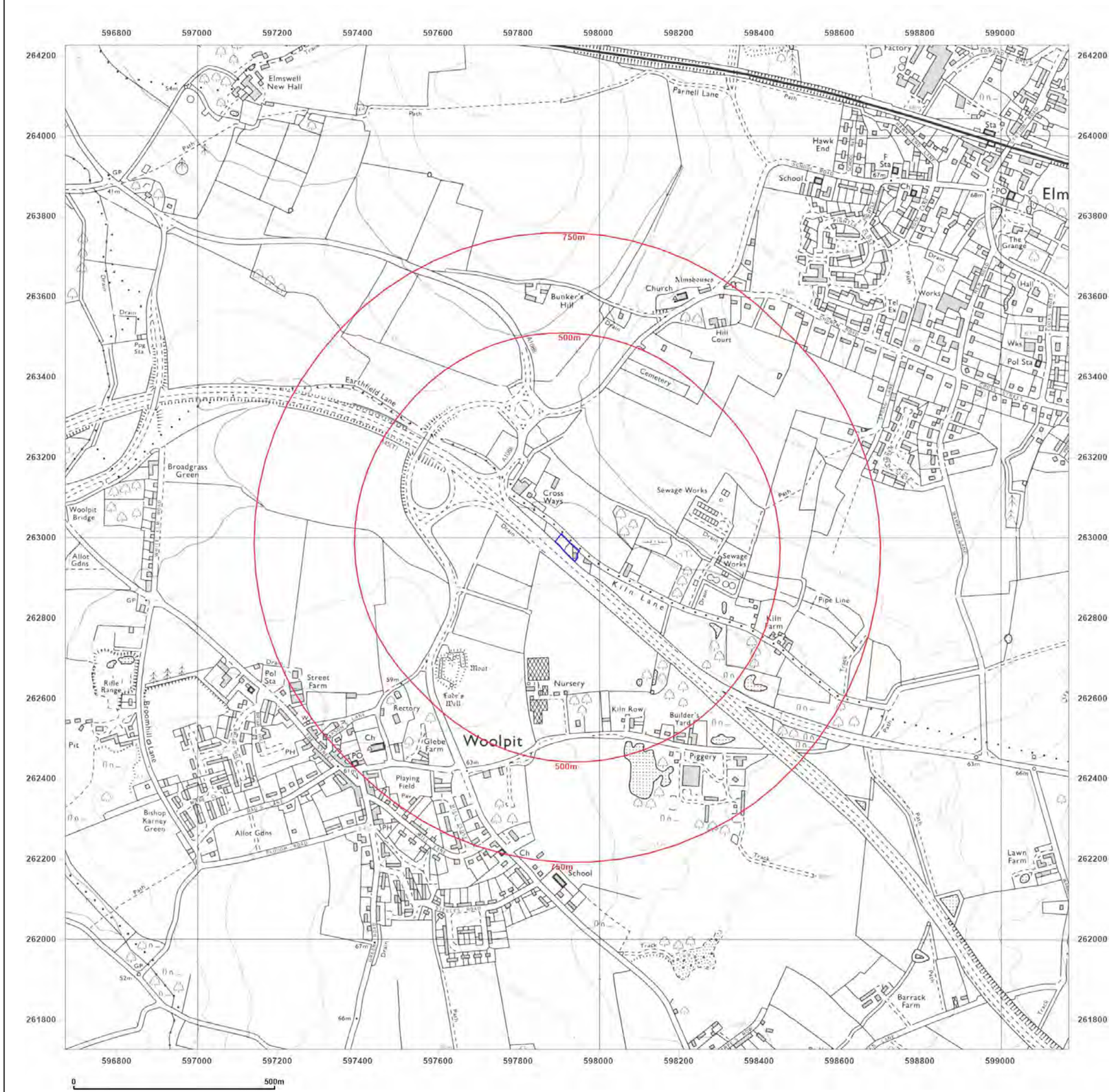

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Site Details:

ROYSTON FARM, KILN LANE,
ELMSWELL, IP30 9QR

Client Ref: OES23-001LOM
Report Ref: HMD-8K7-4XF-4H9-HYD
Grid Ref: 597921, 262976

Map Name: National Grid

Map date: **1981**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1973
Revised 1981
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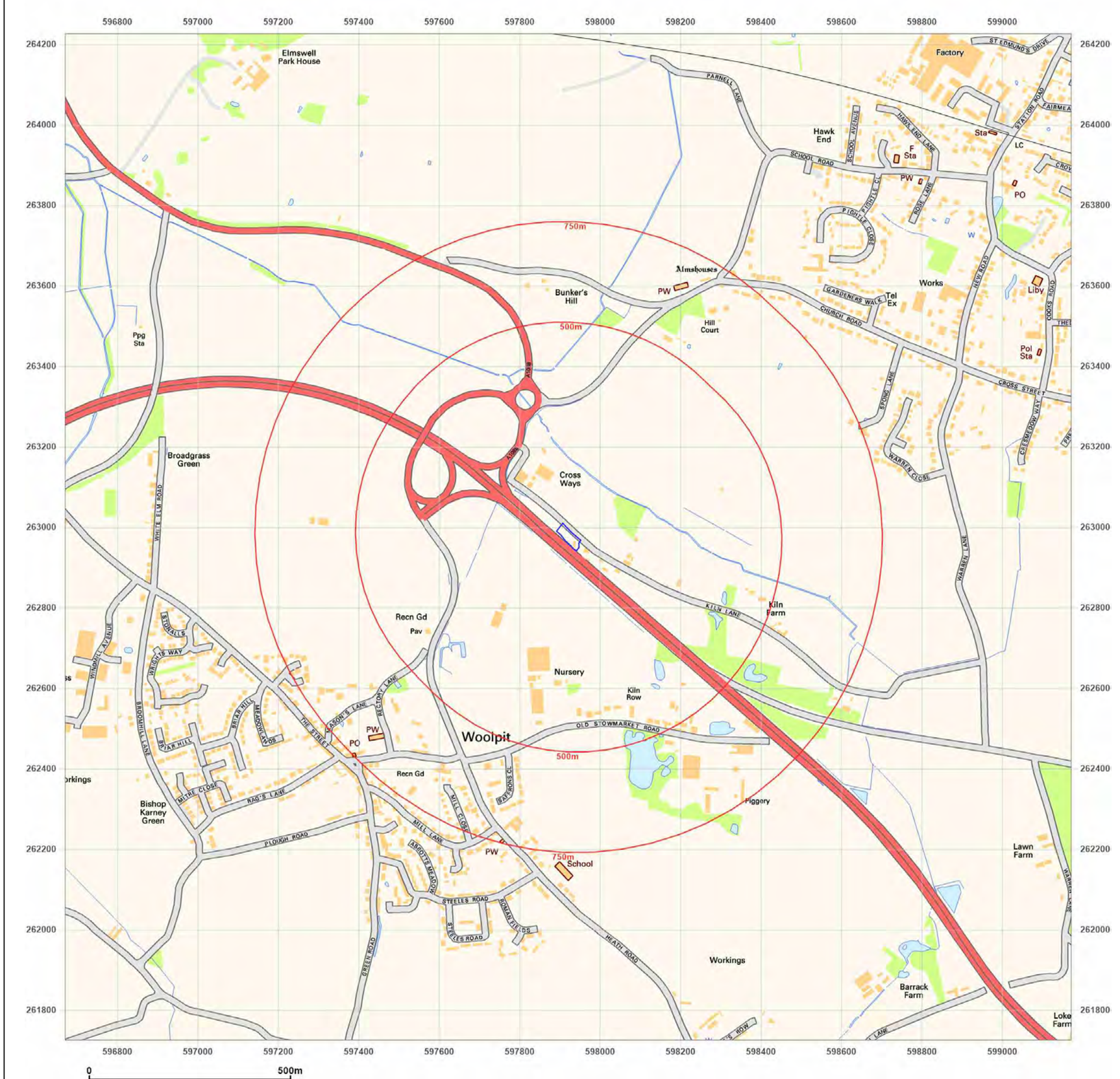

Site Details:

ROYSTON FARM, KILN LANE,
ELMSWELL, IP30 9QR

Client Ref: OES23-001LOM
Report Ref: HMD-8K7-4XF-4H9-HYD
Grid Ref: 597921, 262976

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

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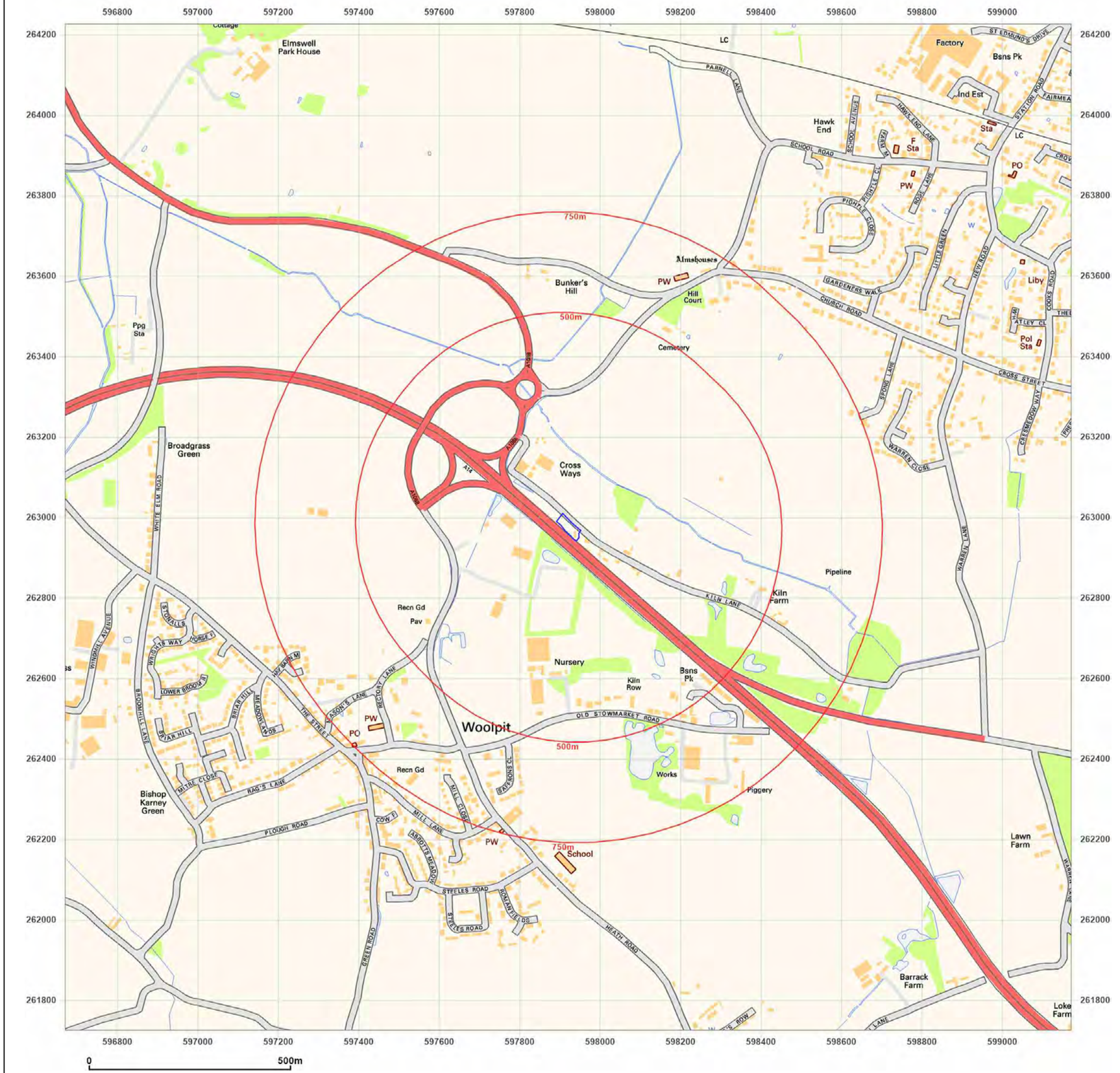

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Site Details:

ROYSTON FARM, KILN LANE,
ELMSWELL, IP30 9QR

Client Ref: OES23-001LOM
Report Ref: HMD-8K7-4XF-4H9-HYD
Grid Ref: 597921, 262976

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

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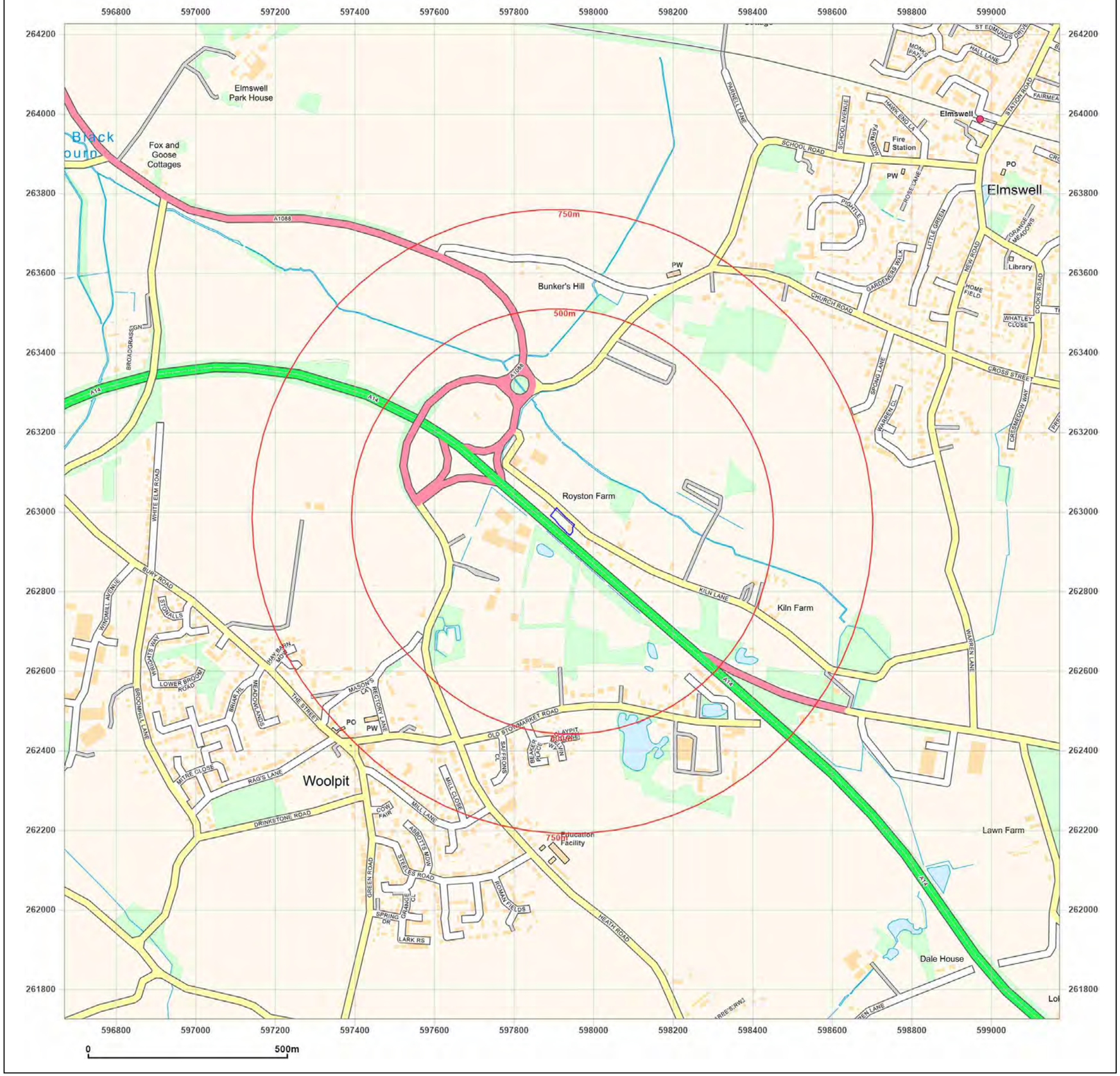

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Site Details:

ROYSTON FARM, KILN LANE,
ELMSWELL, IP30 9QR

Client Ref: OES23-001LOM
Report Ref: HMD-8K7-4XF-4H9-HYD
Grid Ref: 597921, 262976

Map Name: National Grid

Map date: **2023**

Scale: 1:10,000

Printed at: 1:10,000

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